IRON AGE

Semi-Annual Index

January - June, 1971

Volume 207

Microfilm Copies

Complete microfilm copies of The IRON AGE, text and advertising, are available beginning with Vol. 161 (1948) through the issues covered in this index. For information write to University Microfilms, 313 N. First St., Ann Arbor, Mich.

IRON AGE Index

Volume 207 • January-June, 1971

SEMI-ANNUAL INDEX IRON AGE

January - June 1971 Volume 207

SUBJECT

A

A. C. Mfg. Co.:
Computer Eases Job Scheduling, by J. E. Sandford, Feb 18 p 46

ACF Industries:
NAPM Votes 9 to 1 for Steelworkers' Walkout, May 27 p 19

AMF, Inc.:
A World of Business in One Room, by S. H. Hockenberry, May 27 p 71

Abrasives
Abrasive Cut-Off Has New Angles, by T. H. Malim, Jan 28 p 52
Abrasives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55
Grinding Away at Steel Defects, by T. H. Malim, June 3 p 60
Grinding Jobs Multiply for Coated Abrasives, by B. D. Wakefield, Mar 18 p 79
TiC Cutters Take it All Off, by R. A. Wilson, Mar 18 p 67

Adaptive Control
The Self-Teaching Machine is Here, by J. E. Sandford, Apr 8 p 63

Adela Development Corp.
Nationalism: Latin America's Big Schtik, by I. G. Black, Apr 15 p 42

Adhesives
Instant Adhesives Go 'Right On', by T. H. Malim, May 6 p 59
Into the Air With Weld Bonding, T. H. Malim, Mar 4 p 60

Aerospace
Aerospace Myths: Or What Price Glory, by C. J. Suchocki, June 24 p 43
Beryllium Brakes Stop C-5 Cold, May 27 p 29
Can Sword-and-Space Engineers Change their Spots? May 20 p 25
Electron Beam Tools Play Waiting Game on Orders, by T. H. Malim, Feb 25 p 45
Engineers: Who'll Save Cock Robin? by C. J. Suchocki, June 24 p 43
The Executive's Third Ear . . ., by S. H. Hockenberry, Apr 1 p 47
Into the Air With Weld Bonding, by T. H. Malim, Mar 4 p 60
Is Lockheed's Survival the Issue? by Gene Beaudet, June 17 p 5
Laser Metrology Sharpens its Costs, by J. E. Sandford, Apr 8 p 57
Nor' Easters May Weather Industrial Squalls, by T. H. Malim, June 24 p 48
SST Still Lacks Congressional Wings, by K. A. Kaufman, Mar 11 p 21
Slotted Metal Fits Into Many Structural Slots, by B. D. Wakefield, Feb 25 p 60
Titanium—Aerospace and Then What, Mar 4 p 28
Tool & Die Thins Under Double Blows, by R. A. Wilson, Apr 8 p 43
Where Do You Stand in the Great Debate? by Gene Beaudet, Apr 8 p 5

Airco Welding Products Div.:
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59

Air Products and Chemicals, Inc.:
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 64

AiResearch Industrial Div.:
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51

Air Reduction Co., Inc.:
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 64

Alan Wood Steel Co.:
Cutting Costs? Try Going to Workers, They'll Help, by P. J. Cathey, Apr 29 p 38
Strong Steels Take Severe Bends, by B. D. Wakefield and R. R. Irving, June 3 p 57

Alaska
Alaska Oil Pipeline: Would Rails be Better? June 10 p 25

Alco Standard Corp.:
Computer Controls Furnace Cycle, by B. D. Wakefield, Feb 11 p 82

Allegheny Ludlum Steel Corp.:
Foreign Cutthroats May Shut Mills, by G. J. McManus, May 20 p 49
Stainless War Rages Despite Discount, by K. W. Bennett, May 20 p 48
Steel Summary: Have Steel Men Lost Stainless Grip? May 20 p 89
Whipping Boy Steel Whips Back, by G. J. McManus, May 6 p 35

Allen-Bradley Co.:
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53

Alliance for Labor Action
ALA: Now it's Meany's Turn to Gloat, May 20 p 19
ALA: Still Alive, But Not too Well, June 3 p 19

Allied Pacific Mfg. Co.
Tool & Die Thins Under Double Blows, by R. A. Wilson, Apr 8 p 43

Allison-Campbell Div.:
Abrasives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55

Allis-Chalmers Mfg. Co.:
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51

Aluminum
Aluminum Powder Passes Exfoliation Test, June 17 p 27
Anodizing's Almost Defect-Free, Feb 18 p 60
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51
Curtain Wall: More than Skin Deep, by A. M. Greene, May 27 p 77
Electroslag Takes on Aluminum, by R. R. Irving, Apr 15 p 60
Everyone Gets His Price in Aluminum Accord, by James Beizer, June 3 p 51
Metals Pick Up Speed in Building Materials Race, by I. G. Black, Apr 29 p 37
Mill Speeds Aluminum to a New Life, by J. J. Obrzut, Apr 22 p 81
1970 Aluminum Shipments Seesaw Down 7 Pct, by James Beizer, Jan 7 p 167
Raising Prices Doesn't Mean You'll Get It, by James Beizer, June 10 p 131
Transition Joints Go to Sea, Feb 4 p 56

Aluminum Co. of America
Aluminum Powder Passes Exfoliation Test, June 17 p 27
Cost-Price Shootout at Market Corral? by G. J. McManus, June 17 p 42
Labor: A Hands-Off Policy that Slaps, by G. J. McManus, June 10 p 70
Modular Homes: Now is the Hour? by K. W. Bennett, Feb 18 p 39
Production Welding of PM Parts Comes of Age, by B. D. Wakefield, Jan 21 p 39
Raising Prices Doesn't Mean You'll Get It, by James Beizer, June 10 p 131
Reciprocity Attack Swings from Steel to Aluminum, by K. A. Kaufman, June 3 p 21

Aluminum Industry
Aluminum's Got Trouble-in Spades, by James Beizer, Jan 28 p 65
Crocodile Tears Open Aluminum Labor Talks, by James Beizer, Apr 22 p 115
Everyone Gets His Price in Aluminum Accord, by James Beizer, June 3 p 51
Labor: A Hands-Off Policy that Slaps, by G. J. McManus, June 10 p 70
1970 Aluminum Shipments Plunge 6.6 Pct, by James Beizer, Mar 11 p 73
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53
Steel Labor: Can Talks Aren't the Only Show, Feb 18 p 19
Well, We're Disappointed, Too, by Gene Beaudet, June 10 p 5

Aluminum Manufacturers Assn.:
Metals Pick Up Speed in Building Materials Race, by I. G. Black, Apr 29 p 37

Aluminum Workers International Union
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53

Amana Refrigeration, Inc.:
Appliance Men Plug in to Happy Times, by K. W. Bennett, June 3 p 48

American Assn. for the Advancement of Science
Pay-As-You-Pollute Plan: No-Limits, Just Cash, by D. N. Williams, Jan 14 p 45

American Assn. of State Highway Officials
New Highway Design Criteria is Approved, Feb 11 p 28

American Can Co.:
Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53
Steel Summary: Mini-Mills for Making Tinplate? June 17 p 81
USWA—Thinking Big for 1971, by G. J. McManus, Feb 11 p 59

American Chain and Cable Co.:
Abrasives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55

American Colloid Co.:
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44

American Cyanimid Co.:
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 64

American Federation of Labor/CIO
ALA: Now it's Meany's Turn to Gloat, May 20 p 19
Meany Scores Nixon's Economic 'Busybodies', June 3 p 19

American Gas Assn.:
Are LNG Pipelines Practical? Mar 11 p 60

American Hoist & Derrick Corp.:
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59

American Institute of Imported Steel
Foreign Steel for Hedging? Users Can't Count on It, by G. J. McManus, Jan 14 p 47
Stainless War Rages Despite Discount, by K. W. Bennett, May 20 p 48

American Institute of Mining Metallurgical & Petroleum Engineers
AIME Fashions the Renaissance Man, by James Beizer, Mar 11 p 44
Steel Mills Loosen Purse Strings a Little, by G. J. McManus, Apr 29 p 35

American Iron and Steel Institute
AISI Cops a Plea and a Denial, May 27 p 69
Don't Sell Steel Short, Gott Urges, by G. J. McManus, May 20 p. 53

Here's How It Is, Steelmen Tell U.S., by K. A. Kaufman, May 27 p 69
Recovery: A Case of Tired Blood? by G. J. McManus, June 3 p 45

American Machine & Foundry Co.:
Iron Mike Works on Monday, by D. N. Williams, Mar 4 p 43
SEE ALSO AMF, Inc.

American Machine Tool Distributors Assn.:
Machine Tools: 'Now' is Bad, Will 'Later' be Better? Apr 8 p 11

American Management Assn.:
Computer's Got to Learn Humility, Mar 18 p 26
Ecology, Consumer Sap Japan's Exports, by I. G. Black, Apr 8 p 47
Is This Why U. S. Productivity Went Sour? Mar 4 p 27
Learning to Dig the Young Managers, Feb 18 p 27
What's Bugging Manufacturing Managers, by P. J. Cathey, Mar 25 p 44

American Metal Climax, Inc.:
Amax Hikes Zinc Price (Despite Soggy Market), by James Beizer, Mar 25 p 45
"Complaining About the Mean Old Copper Barons", by James Beizer, May 13 p 93
Copper and Religion Don't Mix in Puerto Rico, by James Beizer, Feb 18 p 73
Mining Auld Sod? Luck of the Irish Will Help, by James Beizer, Apr 8 p 79
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53
Yeah, But How Much Does it Cost? by James Beizer, Jan 21 p 31

American Metal Stamping Assn.:
Safety Act: Unsafe at Any Reading, by R. A. Wilson, June 10 p 67

American Motors Corp.:
AMC Talks: GM Was Never Like This, by D. N. Williams, Apr 15 p 46
UAW Bargains to Keep Supply Lines Open, by D. N. Williams, Feb 25 p 48
UAW Offers AMC Extended Big Three Pact, Mar 11 p 19

American SMT Corp.:
Card NC Tries Comeback with Swedish Managers, by K. W. Bennett, May 20 p 47

American Smelting & Refining Co.:
Can Economists Tell Copper's Fortune? by James Beizer, May 6 p 41
Copper's Song of Sulphur: A Pocketful of Wry, by James Beizer, June 24 p 75
Mill Speeds Aluminum to a New Life, by J. J. Obrzut, Apr 22 p 81
Mining Auld Sod? Luck of the Irish Will Help, by James Beizer, Apr 8 p 79
Zinc Stock Improvement! A Step Up for Prices, by James Beizer, May 20 p 91

American Society of Civil Engineers
Pay Poor Engineers Torn Between Unions and Job, by C. J. Suchocki, Apr 29 p 40

American Society for Personnel Administration
Managers Give Drug Users Short Shrift, Jan 28 p 25

American Society for Quality Control
Promote QC to Executive Status, by K. W. Bennett, May 27 p 66

American Standard, Inc.:
Tax Cut? Yes, But Don't Ask How, When and Why, by G. J. McManus, Apr 15 p 44

American Statistical Assn.:
All Pickup Needs is Strength and Speed, by J. D. Baxter, Apr 29 p 41

American Steamship Co.:
Cancel the Burial at Sea; Shipbuilding Resuscitated, by R. A. Wilson, May 6 p 37

American Sterilizer Co.:
Instant Adhesives Go 'Right On', by T. H. Malim, May 6 p 59

American Tool Works Co.:
New Lathes Fill Profit Gap, by R. A. Wilson, Feb 25 p 44
The New Profit Power in NC Lathes, by J. E. Sandford, June 17 p 51
Sure, Machine Tool Sales Will Get Better—But When? by R. A. Wilson, Jan 7 p 76

American Welding Society
Pollution: Welding's Pot-of-Gold, by N. B. Schwartz, Apr 15 p 62
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59

American Zinc Co.:
Nonferrous: Nickel Booms, the Rest Bust in '70, by James Beizer, Apr 22 p 67

Amsted Industries, Inc.:
A Price Cut by Any other Name is Still the Same, by K. W. Bennett, Mar 11 p 42

Anaconda American Brass Co.:
Getting the Most Out of Pollution, by T. H. Malim, Feb 11 p 80

Anaconda Co.:
Chile: Sometimes it Pays to Scream—a Little, Feb 18 p 25
Just How Strong is Allende in Chile? by James Beizer, Apr 15 p 83
Yeah, But How Much Does it Cost? by James Beizer, Jan 21 p 31

Appliances
Appliance Men Plug in to Happy Times, by K. W. Bennett, June 3 p 48
The Best Kept Secret of Our Times, by G. J. McManus, Jan 7 p 85

Armco Steel Corp.:
Cost-price Shootout at Market Corral? by G. J. McManus, June 17 p 42
Curtain Wall: More than Skin Deep, by A. M. Greene, May 27 p 77
Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46
Recovery: A Case of Tired Blood? by G. J. McManus, June 3 p 45
Rift Grows Over Antitrust Policies, by G. J. McManus, Apr 29 p 35
Tax Cut? Yes, But Don't Ask How, When and Why, by G. J. McManus, Apr 15 p 44
Wage-Price Paradox Puzzles Steelmen, by G. J. McManus, June 24 p 44

Arrowsmith Tool and Mfg. Co.:
Searching for a Golden Goose, by R. A. Wilson, Apr 8 p 43

Atlantic Research Div.:
Pollution-Free Rapid Transit, Mar 25 p 26

Australia
Aussies Boost Trade to Communist Countries, May 27 p 25
Australia Wants a Piece of its Action, by James Beizer, Feb 11 p 65

Automation
Computer Scales Up Melt Shop Skills, by R. A. Wilson, May 6 p 57
Ford to Diaper 60 Precocious Mikes, by D. N. Williams, June 3 p 49
Iron Mike Works on Monday, by D. N. Williams, Mar 4 p 43
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51
Lordstown Plant: GM's New Mark of Excellence? by D. N. Williams, Mar 11 p 39
Multilevel Mill Control is Near, May 13 p 73
Tool Builder Automates Expansion, by B. D. Wakefield, Mar 18 p 82

Automobiles
AMC Talks: GM Was Never Like This, by D. N. Williams, Apr 15 p 46
Air Bags: On the Way to Reality, by D. N. Williams, Mar 25 p 21
Automakers' Parts Reduction Drive Gathers Steam, by D. N. Williams, June 3 p 23
Auto Rules: A Blessing in Disguise? by D. N. Williams and James Beizer, Mar 25 p 39
Auto Safety Cost-Push Topples Designers' Throne, by D. N. Williams, Mar 11 p 45
Auto '71: Stumbling to Record Year? by D. N. Williams, Jan 7 p 80
Autos: Can Good Faith Beat Bad Air? by D. N. Williams, May 13 p 55
Chrysler Says It's 'Off the Ropes', by D. N. Williams, Feb 18 p 23
The Clam Flavored, Lemon Colored Tailgate, by D. N. Williams, Apr 29 p 23
Coming Soon—the "Cleanmobile 8", by D. N. Williams, June 10 p 23
Corvette Goes Mid-Engine in '73, by D. N. Williams, Apr 15 p 23
Detroit: Beginning of the End? by D. N. Williams, May 20 p 51
Exhaust Rules: Are the Tradeoffs Worth It? by D. N. Williams, May 20 p 23
Firebird/Camaro: Could this be Goodbye? by D. N. Williams, May 13 p 23
Ford Fingers Fickle Government Standards, by D. N. Williams, May 27 p 23
GM Takes a Back Seat Overseas, by D. N. Williams, Feb 25 p 23
GM Tips Hand on Safety Systems, by D. N. Williams, Feb 4 p 19
GM Unveils Laundry List for '75 Engines, by D. N. Williams, June 17 p 23
'Gift Wrapping' May Stop Car Theft, by D. N. Williams, Jan 28 p 21
Is the Auto a Status Dropout? by D. N. Williams, Apr 8 p 41
Is Ford Maverick Doing its Job? by D. N. Williams, Apr 22 p 23
Japan Shows No Mercy to U. S. Car Market, Feb 18 p 25
Lordstown Plant: GM's New Mark of Excellence? by D. N. Williams, Mar 11 p 39
Safety: It Starts at the Track, by N. B. Schwartz and Stan Stephenson, May 13 p 69
Safety Rules Spark Glimmer of Hope, by D. N. Williams, Mar 4 p 23
So Goes Detroit; So Goes the Recovery? by D. N. Williams, Apr 15 p 48
Spring Recall Season Blooms, by D. N. Williams, Apr 8 p 21
Steel Summary: Good Auto Sales to Cause Scrambling? Apr 1 p 83
Steel Summary: Strong 2nd Quarter for Autos Aids Mills, May 6 p 73
Twister: Selling the Sizzle—But Not the Steak? Jan 28 p 21
The Tyranny of Campaign GM, by Gene Beaudet, May 27 p 5
U. S. Automakers Gain Japan Market Push, June 24 p 25
The Vega & Pinto: Who's Papa? by D. N. Williams, Apr 1 p 23
What are the Automakers Doing to Stem the Corrosion Tide? by W. G. Patton, Apr 29 p 52
Will Chrysler Deflate the Air Bag? by D. N. Williams, Feb 11 p 23
Williams Turns on Gas Turbine, by D. N. Williams, Jan 14 p 21

Automotive Industry—Weekly Reports of Inside and Outside Influences (See Also D. N. Williams)

Automotive Industry
Auto '71: Stumbling to Record Year? by D. N. Williams, Jan 7 p 80
Auto Safety Cost-Push Topples Designers' Throne, by D. N. Williams, Mar 11 p 45
Chrysler Says It's 'Off the Ropes', by D. N. Williams, Feb 18 p 23
Detroit: Beginning of the End? by D. N. Williams, May 20 p 51
Is the Auto a Status Dropout? by D. N. Williams, Apr 8 p 41
NAR: "We Can Do It for You Wholesale", by D. N. Williams, June 24 p 23
Recession Eats Auto Parts' Dust, by K. W. Bennett, Mar 18 p 64
The Red Coats are Coming—Back, by D. N. Williams, Jan 21 p 20
The Sabbath Day Grows Longer, by D. N. Williams, Jan 28 p 36
Safety Rules Spark Glimmer of Hope, by D. N. Williams, Mar 4 p 23
So Goes Detroit; So Goes the Recovery? by D. N. Williams, Apr 15 p 48
Technology 'As You Like It', by W. G. Patton, May 27 p 80
Tool & Die Thins Under Double Blows, by R. A. Wilson, Apr 8 p 43
UAW Bargains to Keep Supply Lines Open, by D. N. Williams, Feb 25 p 48
What are the Automakers Doing to Stem the Corrosion Tide? by W. G. Patton, Apr 29 p 52
Will White Pen New Verse for "Ballad of Bunkie", by R. A. Wilson, May 6 p 38

Avco Bay State Abrasives Div.:
Abrasives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55
Grinding Away at Steel Defects, by T. H. Malim, June 3 p 60

Avco Corp.:
Advanced Composites: Is Success Inevitable? Apr 8 p 25

B

Babcock & Wilcox Co.:
Computer Scales Up Melt Shop Skills, by R. A. Wilson, May 6 p 57

Badger Foundry Co.:
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44

Baldwin-Lima-Hamilton Corp.:
Adhesives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55
EDM Tackles Tough Metal Removal, Apr 8 p 64

Battelle Memorial Institute
Metallurgy Sharpens its Vision, by T. H. Malim, June 10 p 79
What Good are the Shakes? by T. H. Malim, Jan 14 p 56

Battenfeld Corp. of America
Injection Molding Shoots for Size, by B. D. Wakefield, Apr 22 p 75

Behring Corp.:
Modular Homes: Now is the Hour? by K. W. Bennett, Feb 18 p 39

Bending
Tube Bending Technology Shapes a Firm Future, by B. D. Wakefield, Apr 1 p 54

Bendix Corp.:
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53
The Self-Teaching Machine is Here, by J. E. Sandford, Apr 8 p 63

Beryllium
Special Cutter Saves a Million, June 24 p 60

Bethlehem Steel Corp.:
Accuracy Tips Scale for Ingot Pouring, by R. A. Wilson, June 10 p 84
Can Steel Survive the Seventies? by H. R. Neal, Apr 15 p 51
Cort Sizes Up Wage-Price Climate, by G. J. McManus, Apr 8 p 50
Cost-Price Shootout at Market Corral? by G. J. McManus, June 17 p 42
Curtain Wall: More than Skin Deep, by A. M. Greene, May 27 p 77
Cutting Costs? Try Going to Workers, They'll Help, by P. J. Cathey, Apr 29 p 38
The Emphasis on Building Skins, Mar 4 p 28
"Flip Tops" Keep Soaking Pits Hot, Apr 29 p 56
Increased Output Keyed to Sawing Speed, Mar 25 p 60
Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46
Nixon Says USS's Boost is Just Small Enough, by G. J. McManus and K. A. Kaufman, Jan 21 p 32
"Rome is Burning," Say Steelmen by G. J. McManus, Jan 28 p 40
Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53
Steel Summary: Mini-Price War in Midst of Boom, Mar 4 p 79

Birdsboro Corp.:
Increased Output Keyed to Sawing Speed, Mar 25 p 60

Bituminous Coal Operators Assn.:
The Energy Pinch Releases Its Grip, by G. J. McManus, May 27 p 63

Bituminous Coal Research, Inc.:
Coal Gas Plants Begin Pilot Pipe Flows, by I. G. Black, Jan 14 p 46

Black and Decker Mfg. Co.:
Abrasives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55

Boating
Will Fun Get Consumer Buying Going? by K. W. Bennett and R. A. Wilson, Jan 14 p 41

Book Reviews
How Japanese Managers Reach Decisions, Jan 7 p 27

Borden, Inc.:
Lean Builders Eye Food Machine Diet, by K. W. Bennett, Feb 4 p 39

Borg-Warner Corp.:
Farm Tool Maker Turns Hardcoater, by B. D. Wakefield, Jan 28 p 54
Recession Eats Auto Parts' Dust, by K. W. Bennett, Mar 18 p 64

Brakes
Beryllium Brakes Stop C-5 Cold, May 27 p 29
SEE ALSO Disc Brakes

Brazing
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51
Brazing Performs Mix Alloy and Glass, Feb 4 p 23

Richard D. Brew & Co., Inc.:
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51

C. Brewer & Co., Ltd.:
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59

Bridgeport Brass Div.:
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53

British Steel Corp.:
Is World Supply of Coking Coal Sold Out? Jan 7 p 25

Broken Hill Proprietary Co., Ltd.:
Strong Steels Take Severe Bends, by B. D. Wakefield and R. R. Irving, June 3 p 57

Brotherhood of Railway and Airline Clerks
Nixon Asks Power to Avert Rail Strike, Feb 18 p 19

Brotherhood of Railroad Signalmen
Signalmen Shrug Off Fat Wage Offer, Apr 22 p 19
Signalmen Stage Costly Rerun, by D. N. Williams, May 27 p 65

Brown & Sharpe Mfg. Co.:
Toolmen Cry 'Investment Credit Now', by R. A. Wilson, Apr 15 p 45

Brush Beryllium Corp.:
Beryllium Brakes Stop C-5 Cold, May 27 p 29

Brunswick Corp.:
Who Will Do It is Planning's Big Problem, by K. W. Bennett, June 17 p 41
Will Fun Get Consumer Buying Going? by K. W. Bennett and R. A. Wilson, Jan 14 p 41

Buckeye Foundry Co.:
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44

Bucyrus-Erie Corp.:
Earthmovers Plow Into Machine Buys, by K. W. Bennett, Feb 11 p 56

Buhr Machine Tool Corp.:
Sometimes the Old Ways are the Best, by D. N. Williams, Apr 29 p 39

Building Construction
Curtain Wall: More than Skin Deep, by A. M. Greene, May 27 p 77
The Emphasis on Building Skins, Mar 4 p 28
Metals Pick Up Speed in Building Materials Race, by I. G. Black, Apr 29 p 37
Modular Homes: Now is the Hour? by K. W. Bennett, Feb 18 p 39
Plant Plans: Men, Money, Machines First, Then Build, by S. E. Lehman, June 10 p 73

Bureau of National Affairs, Inc.:
First Quarter Wage Gains Set New Record High, May 6 p 19
Managers Give Drug Users Short Shrift, Jan 28 p 25
Wage Hikes Maintain Record Pace in '70, Jan 21 p 18
White-Collar Drive Rates Only Fair in '70, Apr 29 p 19

William J. Burns International Detective Agency, Inc.:
Blowing the Whistle on Corporate Spies, Jan 21 p 22

Burson-Marsteller
Is this an Attack on the Bottom Line? Apr 8 p 23

Business/Finance Newsfront, Weekly Editorials and Forecasts (See Also Gene Beaudet)

Busses
Is School Bus Safety Just Another Detour? by D. N. Williams, May 6 p 23

Butler Mfg. Co.:
Farm Machinery Sows its Oats for '71, by K. W. Bennett, Feb 25 p 42

C

CF & I Corp.:
Steel Summary: New Bar Mill Boosts Quality, June 24 p 60

Cain Tubular Products, Inc.:
Tube Bending Technology Shapes a Firm Future, by B. D. Wakefield, Apr 1 p 54

Canada
Foreign Steel for Hedging? Users Can't Count on It, by G. J. McManus, Jan 14 p 47
Japan-Canada Coal Talks Leave Kaiser Sweating, by Jack Miller, May 13 p 57
UAW Bargains to Keep Supply Lines Open, by D. N. Williams, Feb 25 p 48

Cans
Selective Strikes, Canners Crowd Steelworkers, Feb 25 p 19
USWA Strikes Canmakers After National Settles, by K. A. Kaufman, Feb 18 p 43
USWA-Thinking Big for 1971, by G. J. McManus, Feb 11 p 59

Capitol Welding Supply
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 64

Carborundum Co.:
Abrasives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55
Grinding Away at Steel Defects, by T. H. Malim, June 3 p 60
Grinding Jobs Multiply for Coated Abrasives, by B. D. Wakefield, Mar 18 p 79

Carnegie Mellon University
Don't Gain Skills in Worrying, Think Solutions, Apr 29 p 24

J. H. Carruthers & Co. Ltd.:
Scottish Crane Invades U. S. Industry, Jan 21 p 46

J. I. Case Co.:
Farm Machinery Sows its Oats for '71, by K. W. Bennett, Feb 25 p 42
Nationalism: Latin America's Big Schtik, by I. G. Black, Apr 15 p 42

Cast Iron Pipe Co.:
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44

Casting, Continuous
Controlled Al-Killing Degassing of Steel, May 20 p 27
Gas-Sleeve Nozzle Casts Killed Steel, Apr 22 p 26
Phosphor Bronze: Cast into Slabs, by T. H. Malim, May 6 p 56

Castings
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44

A. M. Castle & Co.:
Service Centers are Pulling Out All the Stops for Sales Success, by K. W. Bennett, May 6 p 45

Caterpillar Tractor Co.:
Earthmovers Plow Into Machine Buys, by K. W. Bennett, Feb 11 p 56
Inspection Cuts NC Downtime, by R. A. Wilson, Mar 11 p 56
Pollution Control Begins Inside the Plant, by J. J. Obrzut, Jan 28 p 48

Cerro Corp.:
"Complaining About the Mean Old Copper Barons", by James Beizer, May 13 p 93
Mining Auld Sod? Luck of the Irish Will Help, by James Beizer, Apr 8 p 79
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53

Chains
A Price Cut by Any other Name is Still the Same, by K. W. Bennett, Mar 11 p 42

Chamberlain Mfg. Co.:
Modular Homes: Now is the Hour? by K. W. Bennett, Feb 18 p 39

Chambersburg Engineering Co.:
Redesign of Dies Aids Automated Forging, May 27 p 83

Chemetron Corp.:
Lean Builders Eye Food Machine Diet, by K. W. Bennett, Feb 4 p 39

Chile
A Chile Mine Takeover Puts the Heat on Kennecott, by James Beizer, June 3 p 75
Chile: Sometimes it Pays to Scream—a Little, Feb 18 p 25
Chile's Money Roll Blues Fall on Tin Ears, by James Beizer, Mar 4 p 45
Just How Strong is Allende in Chile? by James Beizer, Apr 15 p 83
U. S. Blasts Allende on Copper Takeovers, by James Beizer, Feb 11 p 109
Uncle Sam: Scapegoat for Chile's Woes, by James Beizer, Mar 25 p 85

China
Trading with Russians or Red Chinese: Who's the Best Bet? by K. A. Kaufman, June 17 p 40

Chisholm-Ryder Co., Inc.:
Lean Builders Eye Food Machine Diet, by K. W. Bennett, Feb 4 p 39

Chrysler Corp.:
Automakers' Parts Reduction Drive Gathers Steam, by D. N. Williams, June 3 p 23
Chrysler Fights Deadline: IH Hit by UAW Walkout, Jan 21 p 18
Chrysler Offer Spurned: Back Pay, Salaries Hit, Jan 14 p 17
Chrysler Says It's 'Off the Ropes', by D. N. Williams, Feb 18 p 23
Is the Auto a Status Dropout? by D. N. Williams, Apr 8 p 41
So Goes Detroit; So Goes the Recovery? by D. N. Williams, Apr 15 p 48
Spring Recall Season Blooms, by D. N. Williams, Apr 8 p 21
Strong Steels Take Severe Bends, by B. D. Wakefield and R. R. Irving, June 3 p 57
Twister: Selling the Sizzle—But Not the Steak? Jan 28 p 21
UAW On a Four-Day Week: Feedback Affirmative, May 27 p 19
U. S. Automakers Gain Japan Market Push, June 24 p 25
What are the Automakers Doing to Stem the Corrosion Tide? by W. G. Patton, Apr 29 p 52
Will Chrysler Deflate the Air Bag? by D. N. Williams, Feb 11 p 23
Will Fun Get Consumer Buying Going? by K. W. Bennett and R. A. Wilson, Jan 14 p 41

Cincinnati Milacron
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53
New Lathes Fill Profit Gap, by R. A. Wilson, Feb 25 p 44
The New Power Profit in NC Lathes, by J. E. Sandford, June 17 p 51
Some Machine Builders Expand Despite Slump, by K. W. Bennett, June 17 p 43

Cincinnati Sub-Zero Products, Inc.:
New Process Cuts Roll Delivery Time, by B. D. Wakefield, June 3 p 62

Clark Equipment Co.:
Earthmovers Plow Into Machine Buys, by K. W. Bennett, Feb 11 p 56

Clearing Div.:
Press Builders: Long on Optimism, Short on Orders, by K. W. Bennett, Jan 21 p 34

Cleveland Tech Machine and Tool Co.:
New Lathes Fill Profit Gap, by R. A. Wilson, Feb 25 p 44

Cleveland Turning Machine Div.:
Toolmen Cry 'Investment Credit Now', by R. A. Wilson, Apr 15 p 45

Clevepak Corp.:
New Head Zips Chips from Work Area, Apr 1 p 58

Climax Molybdenum Co.:
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75

Clyde Iron Works
Scottish Crane Invades U. S. Industry, Jan 21 p 46

Coal
Coal Gas Plants Begin Pilot Pipe Flows, by I. G. Black, Jan 14 p 46
Coalmen Try to Turn Brown Desert Green, by K. W. Bennett, Jan 28 p 41
The Energy Pinch Releases Its Grip, by G. J. McManus, May 27 p 63
Is World Supply of Coking Coal Sold Out? Jan 7 p 25
Japan-Canada Coal Talks Leave Kaiser Sweating, by Jack Miller, May 13 p 57

Coal Gas
Coal Gas Plants Begin Pilot Pipe Flows, by I. G. Black, Jan 14 p 46

Coatings
Anodizing's Almost Defect-Free, Feb 18 p 60
'Comprehensive' Sums Up Coil Coater, June 17 p 58
Farm Tool Maker Turns Hard-coater, by B. D. Wakefield, Jan 28 p 54
New Methods Aim at Deposition, by T. H. Malim, May 20 p 61
Oxide Coating Toughens Tools, Jan 21 p 23
Sputtering: A New Way to Coat, by T. H. Malim, Apr 1 p 56
What are the Automakers Doing to Stem the Corrosion Tide? by W. G. Patton, Apr 29 p 52

Cockerill-Ougree-Providence
Why Not Combine Melting, Fabrication, by R. R. Irving, Mar 11 p 53

Coils
'Comprehensive' Sums Up Coil Coater, June 17 p 58

Coke
Foundries Vie for Piece of the Energy Pie, by K. W. Bennett, Apr 8 p 44
Is World Supply of Coking Coal Sold Out? Jan 7 p 25
Japanese Attack Coke Problem, by N. B. Schwartz, Feb 18 p 58
New Coke Fuel Developed, June 3 p 27
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44

College Placement Council
Job Offers to Grads Show Who's Hurting Most, June 24 p 27
Job Outlook for Grads Brightens a Bit, Feb 18 p 27

Colt Industries, Inc.:
EDM Tackles Tough Metal Removal, Apr 8 p 64
PM Tool Steels Come Out Swinging, by J. J. Obrzut, Jan 14 p 51

Columbian Bronze Corp.:
Plastics Display Tough New Image, by H. R. Clauser, Feb 11 p 77

Commercial Kellering Inc.:
Tool & Die Thins Under Double Blows, by R. A. Wilson, Apr 8 p 43

Component Building Systems, Ltd.:
Modular Homes: Now is the Hour? by K. W. Bennett, Feb 18 p 39

Composite Materials
Advanced Composites: Is Success Inevitable? Apr 8 p 25
Composites: Putting Them All Together, May 13 p 29
Reinforced Plastics Fall Forward, Mar 11 p 58

Computer Machining Technology
Service Centers Thrive on Tapes, by T. H. Malim, Mar 25 p 58

Computer Management Aids, Inc.:
Killing Computer Projects: Only Matadors Need Apply, by P. J. Cathey, Mar 18 p 66

Computers
CPU I/O, K, T/S and ALL that Sort of Jazz, Mar 25 p 25
Computer Controls Furnace Cycle, by B. D. Wakefield, Feb 11 p 82
Computer Eases Job Scheduling, by J. E. Sandford, Feb 18 p 46
Computer Scales Up Melt Shop Skills, by R. A. Wilson, May 6 p 57
Computer Untangles Foundry Problems, by B. D. Wakefield, Mar 25 p 57
Computer's Got to Learn Humility, Mar 18 p 26
Computer's Kid Brother Comes of Age, by D. N. Williams, Feb 18 p 41
Killing Computer Projects: Only Matadors Need Apply, by P. J. Cathey, Mar 18 p 66
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53
Management Information Systems Really Aren't, Mar 18 p 26
Multilevel Mill Control is Near, May 13 p 73
NC Software's New Combo—NCCS Plus WORD, by J. E. Sandford, Jan 28 p 38
Put Override on Computer's Role, by R. A. Wilson, June 10 p 75
Quality Control Says 'Go or No-Go', May 20 p 59
The Self-Teaching Machine is Here, by J. E. Sandford, Apr 8 p 63
The Sensuous Meter by 'C', by R. A. Wilson, Mar 11 p 41
Service Centers Thrive on Tapes, by T. H. Malim, Mar 25 p 58
That Does Not Compute, Does Not Compute . . ., Mar 25 p 25
Tool Builder Automates Expansion, by B. D. Wakefield, Mar 18 p 82

Connecticut Foundry Co.:
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44

Conrac Corp.:
Tube Bending Technology Shapes a Firm Future, by B. D. Wakefield, Apr 1 p 54

Conservation
The Best Kept Secret of our Times, by G. J. McManus, Jan 7 p 85
Is this an Attack on the Bottom Line? Apr 8 p 23
Nixon Dons Mr. Clean Uniform in Ecology War, by K. A. Kaufman, Feb 18 p 42
Why Not Combine Melting, Fabrication, by R. R. Irving, Mar 11 p 53

Consolidation Coal Co.:
Coal Gas Plants Begin Pilot Pipe Flows, by I. G. Black, Jan 14 p 46

Construction Industry
Aluminum, Building: Pass the Catch Up, by G. J. McManus, Mar 25 p 42
Can Nixon Hold Hardhat Demands at Bay? by K. A. Kaufman, Apr 8 p 19
Construction: Next Step Wage-Price Freeze? Feb 25 p 19
Curtain Wall: More than Skin Deep, by A. M. Greene, May 27 p 77
Earthmovers Plow Into Machine Buys, by K. W. Bennett, Feb 11 p 56
Nixon, Hard-Hats Head for Open Warfare, May 13 p 19
Nixon Presses for Answer to Builder Cost Spiral, Jan 28 p 20
Nixon Tightens Wage-Price Screws, by K. A. Kaufman, Mar 4 p 41
Romney Pins Hopes on Factory-Built Homes, Jan 14 p 19

Consumerism
Can Consumer Guardians and White House Agree? by K. A. Kaufman, Mar 4 p 21
FTC Takes a Tough Stand on Consumer Action, by K. A. Kaufman, Mar 18 p 20
Industry Depreciates Nader Challenge, June 3 p 47
Is this an Attack on the Bottom Line? Apr 8 p 23
Senate Tries to Enlarge Warranty Fine Print, by K. A. Kaufman, June 24 p 21

Container Corp. of America
Make Trade, Not War With Red Bloc, by K. W. Bennett, Mar 4 p 44

Coors Porcelain Co.:
Transfer System Steps Up Press Tempo, by J. J. Obrzut, Mar 4 p 62

Copper
Can Economists Tell Copper's Fortune? by James Beizer, May 6 p 41
A Chile Mine Takeover Puts the Heat on Kennecott, by James Beizer, June 3 p 75
Chile: Sometimes it Pays to Scream—a Little, Feb 18 p 25
"Complaining About the Mean Old Copper Barons", by James Beizer, May 13 p 93
Copper and Religion Don't Mix in Puerto Rico, by James Beizer, Feb 18 p 73
Copper Companies: One for All and All for One? by James Beizer, Apr 1 p 85
Copper Talks: C-O-L Glows Green, by J. M. Brimberg, Mar 4 p 48
Copper Talks: Wake Me When It's Over, by James Beizer, June 24 p 39
Copper Users Play a Waiting Game, by James Beizer, Feb 4 p 69
Copper: What Happens When Monetary Values Change, May 20 p 46
Copper's Song of Sulphur: A Pocketful of Wry, by James Beizer, June 24 p 75

Forging Puts Copper on a Higher Plateau, Apr 15 p 29
Getting the Most Out of Pollution, by T. H. Malim, Feb 11 p 80
How Much is Too Much for Clean Air? by James Beizer, Apr 29 p 64
It's the Bottom of the First, With No Relief in Sight, by James Beizer, Mar 4 p 81
Just How Strong is Allende in Chile? by James Beizer, Apr 15 p 83
Justice Lowers the Boom on Kennecott Copper Corp., by K. A. Kaufman, Jan 21 p 19
Lead: Commodity or Producer Item? Jan 21 p 31
Long Copper Strike Not Likely in 1971, by James Beizer, Jan 28 p 42
Mining Auld Sod? Luck of the Irish Will Help, by James Beizer, Apr 8 p 79
Peru Orders U. S. Companies, 'Pay Up or Get Out', by James Beizer, Jan 14 p 67
Raising Prices Doesn't Mean You'll Get It, by James Beizer, June 10 p 131
U. S. Blasts Allende on Copper Takeovers, by James Beizer, Feb 11 p 109
U. S. Copper Price Yo-Yos Up 2¢, by James Beizer, Apr 1 p 45
U. S. Copper Producers Get LME Pitch—Again, by James Beizer, Feb 25 p 73
U. S. Producers' and LME Prices Match at 50¢ a Lb, by James Beizer, Mar 18 p 113
Uncle Sam: Scapegoat for Chile's Woes, by James Beizer, Mar 25 p 85
Yeah, But How Much Does it Cost? by James Beizer, Jan 21 p 31

Copper Institute
It's the Bottom of the First, With No Relief in Sight, by James Beizer, Mar 4 p 81

Core Materials
Slotted Metal Fits Into Many Structural Slots, by B. D. Wakefield, Feb 25 p 60

Corning Glass Works
Dialogues, Yes, Canned Speeches, No, June 17 p 25

Coromant Div.:
TiC Cutters Take it All Off, by R. A. Wilson, Mar 18 p 67

Corrosion
Mechanical Plating Curbs Rust, Embrittlement, Feb 11 p 81
Metallurgy Sharpens its Vision, by T. H. Malim, June 10 p 79
Pollution: Welding's Pot-of-Gold, by N. B. Schwartz, Apr 15 p 62
Transition Joints Go to Sea, Feb 4 p 56
What are the Automakers Doing to Stem the Corrosion Tide? by W. G. Patton, Apr 29 p 52

Cost Estimating
It Takes More than a Sharp Pencil, by K. W. Bennett, Mar 25 p 47

Costs
Cost Cutting is Out; Cost Control is In, by J. D. Baxter, Feb 25 p 46

Council of Economic Advisors
Everyone Gets His Price in Aluminum Accord, by James Beizer, June 3 p 51
Industry Ho-Hums Write-Off Reform, Jan 21 p 29
Meany Scores Nixon's Economic 'Busybodies', June 3 p 19
Nixon Forces Unveil Money Game Strategy, by K. A. Kaufman, Feb 25 p 21
Rift Grows Over Antitrust Policies, by G. J. McManus, Apr 29 p 35
Steel Bargaining: Head-On Collision, by G. J. McManus, May 27 p 68
Steel Study Rides a Painted Pony, by G. J. McManus, Mar 11 p 43
U. S. Inflation Alert Flashes for Steel, by K. A. Kaufman, Apr 22 p 61

Cowles Tool Co.:
Ultra-Cold Treatments Up Heavy Duty Tool Wear, by R. A. Wilson, Feb 11 p 58

Cross Co.:
To Russia with Profit—U. S. Tools, by D. N. Williams, June 17 p 39

Crucible Specialty Metals Div.:
PM Tool Steels Come Out Swinging, by J. J. Obrzut, Jan 14 p 51

Cryogenics
Ultra-Cold Treatments Up Heavy Duty Tool Wear, by R. A. Wilson, Feb 11 p 58

Cummins Engine Co.:
Make Trade, Not War With Red Bloc, by K. W. Bennett, Mar 4 p 44

Cutler-Hammer, Inc.:
Recovery Sneaks in the Back Door, by K. W. Bennett, Apr 1 p 39

Cutting Tools
Abrasive Cut-Off Has New Angles, by T. H. Malim, Jan 28 p 52
Abrasives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55
'Atomic Tool' Speeds Cutting Tests, May 6 p 53
Axle Line Scores Some Firsts, by W. G. Patton, Feb 4 p 58
Coated Inserts: Confusing the Users, by K. W. Bennett, June 24 p 41
Cutting with an NC-Driven Spark, May 6 p 27
Flame Cutter Carves Out Variety in Big Parts, by B. D. Wakefield, Mar 4 p 61
Increased Output Keyed to Sawing Speed, Mar 25 p 60
The Laser Aids in Shipfitting, May 27 p 84
Laser Metrology Sharpens its Costs, by J. E. Sandford, Apr 8 p 57
New Methods Aim at Deposition, by T. H. Malim, May 20 p 61
Plasma Moves Into Hot Machining, June 3 p 64
Special Cutter Saves a Million, June 24 p 60
TiC Cutttrs Take it All Off, by R. A. Wilson, Mar 18 p 67

Cyclops Corp.:
Foreign Cutthroats May Shut Mills, by G. J. McManus, May 20 p 49
Steel Summary: Have Steel Men Lost Stainless Grip? May 20 p 89
Steel Summary: Record Second Quarter Shipments, Apr 22 p 113

Czechoslovakia
Why Not Combine Melting, Fabrication, by R. R. Irving, Mar 11 p 53

D

Danley Machine Corp.:
Injection Molding Shoots for Size, by B. D. Wakefield, Apr 22 p 75
Press Builders: Long on Optimism, Short on Orders, by K. W. Bennett, Jan 21 p 34

Data General Corp.:
LSI: An Evolution in Controls, by A. M. Greene, Ap

Deburring
Thermal Method Removes Burrs, June 24 p 58

Deepsea Ventures, Inc.:
Deepsea Nodules Yield Minerals, by B. D. Wakefield, May 13 p 74

Deere & Co.:
Farm Machinery Sows its Oats for '71, by K. W. Bennett, Feb 25 p 42
Promote QC to Executive Status, by K. W. Bennett, May 27 p 66

Defense
Can Sword-and-Space Engineers Change their Spots? May 20 p 25
GAO Asks Halt to Non-Defense Use of Test Gear, by K. A. Kaufman, Apr 22 p 21
Keeping Commercial Hands Off Defense Tooling, by K. A. Kaufman, Apr 15 p 21
Nor' Easters May Weather Industrial Squalls, by T. H. Malim, June 24 p 48
Rickover Joins Tool-Die Makers in Equipment Fight, by K. A. Kaufman, May 13 p 21
Something's Got to Give: Defense Profit Figures Clash, by K. A. Kaufman, Mar 25 p 19

W. S. Demoss & Son, Inc.:
Keeping Commercial Hands Off Defense Tooling, by K. A. Kaufman, Apr 15 p 21

Design Digest—Weekly Report of New Materials, Components and Engineering Ideas

Design Engineering
Biggest Design Flaw: Over-Engineering, by G. J. McManus, Apr 29 p 42

Detroit Tooling Assn.:
Benefits Nilt Prefaces UAW-Tool Shop Talks, Jan 7 p 19

DeWalt Div.:
Abrasives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55

Di-Acro Div.:
Tube Bending Technology Shapes a Firm Future, by B. D. Wakefield, Apr 1 p 54

Diamond Chain Div.:
A Price Cut by Any other Name is Still the Same, by K. W. Bennett, Mar 11 p 42

Dickey-Grabler Co.:
Safety Act: Unsafe at Any Reading, by R. A. Wilson, June 10 p 67

Dies
Printing Makes its Mark on Drills, Feb 4 p 55
Redesign of Dies Aids Automated Forging, May 27 p 83

Diffusion Bonding
Diffusion Bonding Makes Split-Second Joints, by R. R. Irving, Jan 28 p 51
Forging Joins its Competition, May 20 p 64

Digital Equipment Corp.:
Computer Controls Furnace Cycle, by B. D. Wakefield, Feb 11 p 82
Inspection Cuts NC Downtime, by R. A. Wilson, Mar 11 p 56
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51
The Sensuous Meter by 'C', by R. A. Wilson, Mar 11 p 41

Direct Reduction
Will Abundant Scrap Cool DR's Charm? by G. J. McManus, Apr 15 p 47

Directories
Directory of Trade Associations, Jan 7 p 119

Disc Brakes
Automen Eye Change to Steel Disc Brakes, by D. N. Williams, Jan 7 p 23

DoAll Co.:
Laser Metrology Sharpens its Costs, by J. E. Sandford, Apr 8 p 57

Dodge Mfg. Corp.:
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44

Dow Chemical Co.:
The Inflation Theme—Play it Again, Sam, by R. A. Wilson, May 27 p 67
1970 Aluminum Shipments Seesaw Down 7 Pct, by James Beizer, Jan 7 p 167

Dreis & Krump Mfg. Co.:
Press Builders: Long on Optimism, Short on Orders, by K. W. Bennett, Jan 21 p 34

Dresser Industries
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53
Recession Eats Auto Parts' Dust, by K. W. Bennett, Mar 18 p 64

Drills
Printing Makes its Mark on Drills, Feb 4 p 55

Drug Addiction
Managers Give Drug Users Short Shrift, Jan 28 p 25

Ducommun Metals and Supply Co.:
Service Centers are Pulling Out All the Stops for Sales Success, by K. W. Bennett, May 6 p 45

E. I. duPont de Nemours & Co.:
Transition Joints Go to Sea, Feb 4 p 56

E

ESB, Inc.:
Nationalism: Latin America's Big Schtik, by I. G. Black, Apr 15 p 42

Earthmoving Machinery
Earthmovers Plow Into Machine Buys, by K. W. Bennett, Feb 11 p 56

Easco Corp.:
Stainless War Rages Despite Discount, by K. W. Bennett, May 20 p 48
Steel Summary: Have Steel Men Lost Stainless Grip? May 20 p 89

East Carolina Steel Div.:
"Jumping Mill" Keeps Plant Hopping, by J. J. Obrzut, Jan 21 p 45

Eastman Chemical Products, Inc.:
Here's Another Tough Plastic, June 10 p 86
Instant Adhesives Go 'Right On', by T. H. Malim, May 6 p 59

Eaton Yale & Towne, Inc.:
Air Bags: On the Way to Reality, by D. N. Williams, Mar 25 p 21
Make Trade, Not War with Red Bloc, by K. W. Bennett, Mar 4 p 44
Nationalism: Latin America's Big Schtik, by I. G. Black, Apr 15 p 42

Ecology
See Conservation, Pollution, Air—Pollution, Water

Economics
All Pickup Needs is Strength and Speed, by J. D. Baxter, Apr 29 p 41
American Foreign Spending Exceeds U. S. Rate, Apr 1 p 43
The Best Kept Secret of Our Times, by G. J. McManus, Jan 7 p 85
Can Economists Tell Copper's Fortune? by James Beizer, May 6 p 41
Copper: What Happens When Monetary Values Change, May 20 p 46
Cort Sizes Up Wage-Price Climate, by G. J. McManus, Apr 8 p 50
Cost-Price Shootout at Market Corral? by G. J. McManus, June 17 p 42
Deeper Concerns Than the Business Cycle, by Gene Beaudet, Jan 14 p 5
Democrats Pressure Nixon for Wage-Price Controls, by K. A. Kaufman, Feb 18 p 21
Does Supply-Demand Still Decide Price? by G. J. McManus, Apr 1 p 42
Dollar Dance to Alter Economy's Steps? May 20 p 45
Fed Cries Need for Price, Cost Curbs, by K. A. Kaufman, Feb 25 p 47
Friedman: Don't Let it All Hang Out, by D. N. Williams, Mar 18 p 63
How Bad Were Profits? Don't Ask, by J. D. Baxter, June 3 p 50
Incomes Policy Coming? USWA Talks Will Decide, by G. J. McManus, Jan 21 p 35
The Inflation Theme—Play it Again, Sam, by R. A. Wilson, May 27 p 67
Industry Ho-Hums Wirte-Off Reform, Jan 21 p 29
Is Mills Really Robin Hood? by K. A. Kaufman, Mar 18 p 61
Is Overconfidence Holding Up the Recovery? by Gene Beaudet, Mar 25 p 5
Is this Guy on to Something? by Gene Beaudet, Feb 4 p 5
Italy, Germany Latest Caught in Wage Pinch, May 13 p 25
It's the Bottom of the First, With No Relief in Sight, by James Beizer, Mar 4 p 81
It's Decade of Growth—or Else, by J. D. Baxter, June 17 p 48
Love Story '72: Another Best Seller? by Gene Beaudet, Feb 11 p 5
Money Demand Triggering Credit Rush? by K. W. Bennett, May 13 p 56
Monopolies Lie at Root of U. S. Ills, Says Hart, Feb 18 p 21
'70s Look Good for Industry, But Not '71, by K. A, Kaufman, Apr 1 p 41
'71 Looks Good—On Paper, by Gene Beaudet, Jan 7 p 73
'71 May Not be as Good as Forecast, by K. A. Kaufman, Jan 14 p 44
Nixon Budget Deficit Will Hold If—by K. A. Kaufman, Feb 4 p 44
Nixon Calls Meeting to Plan for 1990 Society, Apr 22 p 21
Nixon Forces Unveil Money Game Strategy, by K. A. Kaufman, Feb 25 p 21
Nixon Mixing Politics and Tax Reform, by K. A. Kaufman, Jan 7 p 78
Nixon Tightens Wage-Price Screws, by K. A. Kaufman, Mar 4 p 41
Nixon's Bloated (?) GNP Figure Finds Shy Admirer, by K. W. Bennett, Mar 25 p 43
Nor' Easters May Weather Industrial Squalls, by T. H. Malim, June 24 p 48
Recovery: A Case of Tired Blood? by G. J. McManus, June 3 p 45
Recovery Dilemma Has Fed Over Barrel, by K. A. Kaufman, June 10 p 69
Recovery Sneaks in the Back Door, by K. W. Bennett, Apr 1 p 39
So Goes Detroit, So Goes the Recovery? by D. N. Williams, Apr 15 p 48
Sound as a What? by Gene Beaudet, June 3 p 5
Tax Cut? Yes, But Don't Ask How, When and Why, by G. J. McManus, Apr 15 p 44
Tell Me that You Love Me, Arthur Burns, by Gene Beaudet, Mar 18 p 5
U. S. Banker Decries Soft Peddling of EEC, Mar 4 p 25
U. S. Inflation Alert Flashes for Steel, by K. A. Kaufman, Apr 22 p 61
Was that Big Gain in GNP for Real? by J. D. Baxter, May 6 p 39
We Hope This is Just a Start, by Gene Beaudet, Apr 1 p 5
Will Consumer Spending Rise be Disappointing? by K. A. Kaufman, Apr 29 p 21
Will Wilbur Come to the Rescue? by Gene Beaudet, Apr 29 p 5

Edgcomb Steel of New England, Inc.:
Nor' Easters May Weather Industrial Squalls, by T. H. Malim, June 24 p 48
Service Centers are Pulling Out All the Stops for Sales Success, by K. W. Bennett, May 6 p 45

Education
Job Climate for Grads: Bleak and Cold, Jan 21 p 22
Students don't Buy Social Concern 'Snow Job', June 17 p 25
Students Tell All: What It's Like in Industry, May 27 p 27

Electric Discharge Machining
Cutting with an NC-Driven Spark, May 6 p 27
EDM Tackles Tough Metal Removal, Apr 8 p 64

Electroforming
Parts Grow in Plating Tanks, by T. H. Malim, Jan 21 p 42

Electromelt Corp.:
Biggest Design Flaw: Over-Engineering, by G. J. McManus, Apr 29 p 42

Electron Beams
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75
Electron Beam Tools Play Waiting Game on Orders, by T. H. Malim, Feb 25 p 45
Production Welding of PM Parts Comes of Age, by B. D. Wakefield, Jan 21 p 39

Electron Microscopes
Metallurgy Sharpens its Vision, by T. H. Malim, June 10 p 79

Electronic Data Processing
CPU, I/O, K, T/S and ALL that Sort of Jazz, Mar 25 p 25
Killing Computer Projects: Only Matadors Need Apply, by P. J. Cathey, Mar 18 p 66
Management Information Systems Really Aren't, Mar 18 p 26
That Does Not Compute, Does Not Compute . . ., Mar 25 p 25

Electronic Devices & Controls
Computer Controls Furnace Cycle, by B. D. Wakefield, Feb 11 p 82
Computer's KID Brother Comes of Age, by D. N. Williams, Feb 18 p 41
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51
The Red Coats are Coming—Back! by D. N. Williams, Jan 21 p 20
The Sensuous Meter by 'C', by R. A. Wilson, Mar 11 p 41

Electroplating
Low Cost, Low Pollution Plating, June 10 p 29
Parts Grow in Plating Tanks, by T. H. Malim, Jan 21 p 42

Electro-Products Laboratories, Inc.:
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51

Electroslag
Cr-Ni-Mo-V Alloy for Pressure Vessels, June 24 p 28
Electroslag Welding Repairs Worn Rolls, Jan 14 p 27
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59
Why Not Combine Melting, Fabrication, by R. R. Irving, Mar 11 p 53

Electrotherm Corp.:
Why Not Combine Melting, Fabrication, by R. R. Irving, Mar 11 p 53

Employment
Can Sword-and-Space Engineers Change their Spots? May 20 p 25
Deeper Concerns Than the Business Cycle, by Gene Beaudet, Jan 14 p 5
Efforts to Aid Unemployment May Get Nixon Veto, by K. A. Kaufman, June 10 p 21
Executive Job Hunting Still Tough, May 13 p 19
Executive Job Mart: It's Better, Now, But—Feb 25 p 27
How About This One, Mr. Congressman? by Gene Beaudet, Feb 25 p 5
Incomes Policy Coming? USWA Talks Will Decide, by G. J. McManus, Jan 21 p 35
It's Decade of Growth—or Else, by J. D. Baxter, June 17 p 48
Job Climate for Grads: Bleak and Cold, Jan 21 p 22
Job Offers to Grads Show Who's Hurting Most, June 24 p 27
Job Outlook for Grads Brightens a Bit, Feb 18 p 27
Jobless Benefits: Not All Who Ask Receive, Feb 11 p 19
Nor' Easters May Weather Industrial Squalls, by T. H. Malim, June 24 p 48
The Sabbath Day Grows Longer, by D. N. Williams, Jan 28 p 36
Unemployment Labelled Top Issue in '71, Jan 28 p 19
Wage Hikes Maintain Record Pace in '70, Jan 21 p 18

Engelhard Industries
Slow Flow of Silver Socks it to Speculators, by James Beizer, May 27 p 115

Engineers
Biggest Design Flaw: Over-Engineering, by G. J. McManus, Apr 29 p 42
Can Sword-and-Space Engineers Change their Spots? May 20 p 25
DOL Won't Leave Engineers Defenseless, Mar 18 p 18
Determining the Go, No-Go Conditions, May 20 p 25
Don't Gain Skill in Worrying, Think Solutions, Apr 29 p 24
Engineers Map Course for Federal Job Fund, Apr 22 p 19
Engineers: Who'll Save Cock Robin? by C. J. Suchocki, June 24 p 43
How About This One, Mr. Congressman? by Gene Beaudet, Feb 25 p 5
Pay Poor Engineers Torn Between Unions and Job, by C. J. Suchocki, Apr 29 p 40

Engines, Automobile
GM Unveils Laundry List for '75 Engines, by D. N. Williams, June 17 p 23
Steam Also Ran Despite Research, by D. N. Williams, Mar 11 p 23
Tocco Sells 25 Valve Seat Hardeners to Cope with Low Lead, June 3 p 11
When Will the Wankel Make It? by D. N. Williams, Feb 25 p 57

Environmental Protection Agency
Autos: Can Good Faith Beat Bad Air? by D. N. Williams, May 13 p 55
Exhaust Rules: Are the Trade-offs Worth It? by D. N. Williams, May 20 p 23
Fight Pollution Now EPA Chief Charges, Jan 21 p 19
GM Unveils Laundry List for '75 Engines, by D. N. Williams, June 17 p 23
If Not Ahead, Look Back, Mr. McLaren, by Gene Beaudet, Apr 15 p 5
Nixon Dons Mr. Clean Uniform in Ecology War, by K. A. Kaufman, Feb 18 p 42
Pollution Control Write-Off: Stamp of Approval, by K. A. Kaufman, May 27 p 19
Pollution Rules Could Choke Industry—to Death, by K. A. Kaufman, Feb 11 p 21

Erie Engineering Co.:
Ford to Diaper 60 Precocious Mikes, by D. N. Williams, June 3 p 49

Ernst & Ernst Co.:
Cost Cutting is Out; Cost Control is In, by J. D. Baxter, Feb 25 p 46

Esco Corp.:
Service Centers are Pulling All the Stops for Sales Success, by K. W. Bennett, May 6 p 45

Ethyl Corp.:
The Materials Side of Leaded Fuel Battle, Jan 7 p 28

Europe
Steel Import Quotas Down to Nitty Gritty, by K. A. Kaufman, June 24 p 42

European Economic Community
Irish Try Sharing Industry Green, Apr 15 p 25
U. S. Banker Decries Soft Peddling of EEC, Mar 4 p 25
Will Value Added Tax be Next U. S. System? Apr 1 p 25

Ex-Cell-O-Corp.:
'72 Tool Show: World Competition in Old Event, by R. A. Wilson, Apr 8 p 45
Toolmen Cry 'Investment Credit Now', by R. A. Wilson, Apr 15 p 45
UAW Demands Threaten XLO Unit, Apr 15 p 19

Executives, Men on the Move, Who's Who in Metalworking

Executives
Companies Still Play Executive Chess, Jan 14 p 25
Dual Drives at Top Makes Merger Work, by J. D. Baxter, Jan 28 p 43
Executive Job Hunting Still Tough, May 13 p 19
Executive Job Mart: It's Better, Now, But—Feb 25 p 27
Finding the Right Man—and His Staff, Feb 4 p 23
Firing Managers Never Easy, Still—Feb 25 p 27
Hurrah! More Managers Wanted, Apr 8 p 23
Wanted: Manufacturing and Money Mangers, Apr 22 p 25
Will White Pen New Verse for "Ballad of Bunkie", by R. A. Wilson, May 6 p 38

Exide Power Systems Div.:
Nationalism: Latin America's Big Schtik, by I. G. Black, Apr 15 p 42

Extrusion
Plastics Display Tough New Image, by H. R. Clauser, Feb 11 p 77

F

FMC Corp.:
Coal Gas Plants Begin Pilot Pipe Flows, by I. G. Black, Jan 14 p 46
"Flip Tops" Keep Soaking Pits Hot, Apr 29 p 56

Fairfield Technology Corp.:
Nobody Cries as Gavel Sounds Company Death, by S. H. Hockenberry, Feb 18 p 44

Falconbridge Nickel Mines Ltd.:
Nonferrous: Nickel Booms, the Rest Bust in '70, by James Beizer, Apr 22 p 67

Farm Equipment
The Best Kept Secret of Our Times, by G. J. McManus, Jan 7 p 85
Chrysler Fights Deadline; IH Hit by UAW Walkout, Jan 21 p 18
Farm Machinery Sows its Oats for '71, by K. W. Bennett, Feb 25 p 42
Farm Tool Maker Turns Hardcoater, by B. D. Wakefield, Jan 28 p 54

Farrel Co.:
The New Power Profit from NC Lathes, by J. E. Sandford, June 17 p 51

Fasteners
Anodizing's Almost Defect-Free, Feb 18 p 60
New System Spins Heads on Fasteners, June 10 p 83
Transition Joints Go to Sea, Feb 4 p 56

Fedders Corp.:
Appliance Men Plug in to Happy Times, by K. W. Bennett, June 3 p 48

Federal Mediation and Conciliation Service
Can U. S. Stay Out of Steel Talks? by K. A. Kaufman, Apr 22 p 59

Federal-Mogul Corp.:
Is the Auto a Status Dropout? by D. N. Williams, Apr 8 p 41

Federal Press Co.:
Power Press S.O.S.: Safe or Sorry, by R. A. Wilson, June 17 p 45

Federal Reserve Board
Don't Let Low Plant Rates Scare You, by J. D. Baxter, Mar 11 p 47
Fed Cries Need for Price, Cost Curbs, by K. A. Kaufman, Feb 25 p 47
It's Decade of Growth-or Else, by J. D. Baxter, June 17 p 48
'71 May Not be as Good as Forecast, by K. A. Kaufman, Jan 14 p 44
Nixon Tightens Wage-Price Screws, by K. A. Kaufman, Mar 4 p 41
Pollution Control May Hamstring Economy, Fed Says, by K. A. Kaufman, June 17 p 21
Recovery Dilemma Has Fed Over Barrel, by K. A. Kaufman, June 10 p 69
Tell Me that You Love Me, Arthur Burns, by Gene Beaudet, Mar 18 p 5

Federal Trade Commission
FTC, Insurance Companies Turn on Heat, Jan 7 p 81
FTC Takes a Tough Stand on Consumer Action, by K. A. Kaufman, Mar 18 p 20
Senate Tries to Enlarge Warranty Fine Print, by K. A. Kaufman, June 24 p 21

Fiat Motor Co., Inc.:
Auto Rules: A Blessing in Disguise? by D. N. Williams and James Beizer, Mar 25 p 39

Finance
AMC Talks: GM Was Never Like This, by D. N. Williams, Apr 15 p 46
A World of Business in One Room, by S. H. Hockenberry, May 27 p 71
American Foreign Spending Exceeds U. S. Rate, Apr 1 p 43
Can Steel Survive the Seventies? by H. R. Neal, Apr 15 p 51
Cost-Price Shootout at Market Corral? by G. J. McManus, June 17 p 42
Critic's Hoopla Jabs Write-Off Reform, by K. A. Kaufman, Apr 22 p 64
Don't Let Low Plant Rates Scare You, by J. D. Baxter, Mar 11 p 47
Going Public? Give it More Thought First, Apr 22 p 25
The Greening of Industrial America, by Gene Beaudet, Mar 11 p 5
Have You Got Problems? Or Conditions? by Gene Beaudet, Jan 21 p 5
How Bad Were Profits? Don't Ask, by J. D. Baxter, June 3 p 50
It Takes More than a Sharp Pencil, by K. W. Bennett, Mar 25 p 47
Money Demand Triggering Credit Rush? by K. W. Bennett, May 13 p 56
1970: Year for Extraordinary Charges, by James Beizer, Feb 18 p 45
Nobody Cries as Gavel Sounds Company Death, by S. H. Hockenberry, Feb 18 p 44
Recession Eats Auto Parts' Dust, by K. W. Bennett, Mar 18 p 64
Steel Equipment Men Hang on Through the Bust Between Booms, by G. J. McManus, Jan 14 p 48
Steel Profits: A Long Tale of Woe, by G. J. McManus, Feb 4 p 41
Toolmen Cry 'Investment Credit Now', by R. A. Wilson, Apr 15 p 45
Wanted: Manufacturing and Money Managers, Apr 22 p 25
What They Don't Know, Can Hurt You, by Gene Beaudet, May 6 p 5
Will Fun Get Consumer Buying Going? by K. W. Bennett and R. A. Wilson, Jan 14 p 41

Financial Analysts Federation
The Inflation Theme—Play it Again, Sam, by R. A. Wilson, May 27 p 67

Financial Control Associates
What's Bugging Manufacturing Managers, by P. J. Cathey, Mar 25 p 44

A. Finkl & Sons Co.:
New Process Cuts Roll Delivery Time, by B. D. Wakefield, June 3 p 62

Finland
Finns Chart Record Metalworking Exports, Mar 4 p 25
Finns Lose No. 1 Slot in Russian Trade Race, Jan 21 p 21

Firestone Tire and Rubber Co.:
Safety: It Starts at the Track, by N. B. Schwartz and Stan Stephenson, May 13 p 69

First National City Bank of New York
Does Supply-Demand Still Decide Price? by G. J. McManus, Apr 1 p 42
Tax Cut? Yes, But Don't Ask How, When and Why, by G. J. McManus, Apr 15 p 44

First Sterling Div.:
TiC Cutters Take it All Off, by R. A. Wilson, Mar 18 p 67

Flamex Systems, Inc.:
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 64

Food Machinery
Lean Builders Eye Food Machine Diet, by K. W. Bennett, Feb 4 p 39

Ford Motor Co.:
Automakers' Parts Reduction Drive Gathers Steam, by D. N. Williams, June 3 p 23
Auto Rules: A Blessing in Disguise? by D. N. Williams, and James Beizer, Mar 25 p 39
The Clam Flavored, Lemon Colored Tailgate, by D. N. Williams, Apr 29 p 23
Coming Soon-the "Cleanmobile 8", by D. N. Williams, June 10 p 23
Detroit: Beginning of the End? by D. N. Williams, May 20 p 51
Farm Machinery Sows its Oats for '71, by K. W. Bennett, Feb 25 p 42
Firebird/Camaro: Could this be Goodbye? by D. N. Williams, May 13 p 23
Ford to Diaper 60 Precocious Mikes, by D. N. Williams, June 3 p 49
Ford Fingers Fickle Government Standards, by D. N. Williams, May 27 p 23
Ford, GM Disagree on Striker Aid, June 10 p 19
Is the Auto a Status Dropout? by D. N. Williams, Apr 8 p 41
Is Ford Maverick Doing its Job? by D. N. Williams, Apr 22 p 23
Mechanical Plating Curbs Rust, Embrittlement, Feb 11 p 81
So Goes Detroit; So Goes the Recovery? by D. N. Williams, Apr 15 p 48
Spring Recall Season Blooms, by D. N. Williams, Apr 8 p 21
The Vega & Pinto: Who's Papa? by D. N. Williams, Apr 1 p 23
What are the Automakers Doing to Stem the Corrosion Tide? by W. G. Patton, Apr 29 p 52

Forecasting
Auto '71: Stumbling to Record Year? by D. N. Williams, Jan 7 p 80
Can Economists Tell Copper's Fortune? by James Beizer, May 6 p 41
Can Steel Survive the Seventies? by H. R. Neal, Apr 15 p 51
Can You Afford Not to Know What's Coming? Feb 4 p 23
Coming Soon-the "Cleanmobile 8", by D. N. Williams, June 10 p 23
Deeper Concerns Than the Business Cycle, by Gene Beaudet, Jan 14 p 5
Finding the Right Man—and His Staff, Feb 4 p 23
GM Unveils Laundry List for '75 Engines, by D. N. Williams, June 17 p 23
It's Decade of Growth—or Else, by J. D. Baxter, June 17 p 48
Long Copper Strike Not Likely in 1971, by James Beizer, Jan 28 p 42
'70s Look Good for Industry, But Not '71, by K. A. Kaufman, Apr 1 p 41
'71 Looks Good—On Paper, by Gene Beaudet, Jan 7 p 73
'71 May Not be as Good as Forecast, by K. A. Kaufman, Jan 14 p 44
Nixon Calls Meeting to Plan 1990 Society, Apr 22 p 21
Nixon's Bloated (?) GNP Figure Finds Shy Admirer, by K. W. Bennett, Mar 25 p 43
Pot-of-Gold in Stainless Future, Feb 25 p 28
Sure, Machine Tool Sales Will Get Better—But When? by R. A. Wilson, Jan 7 p 76
Wait 'Till Next Year . . . And Next . . . And? by Gene Beaudet, Feb 18 p 5
Who Will Do It is Planning's Big Problem, by K. W. Bennett, June 17 p 41
Will Consumer Spending Rise be Disappointing? by K. A. Kaufman, Apr 29 p 21

Foreign Trade
American Foreign Spending Exceeds U. S. Rate, Apr 1 p 43
And Now—Back to Try Again—Import Curb Bill, by K. A. Kaufman, Feb 4 p 17
Aussies Boost Trade to Communist Countries, May 27 p 25
Auto Rules: A Blessing in Disguise? by D. N. Williams and James Beizer, Mar 25 p 39
Detroit: Beginning of the End? by D. N. Williams, May 20 p 51
Ecology, Consumer Sap Japan's Exports, by I. G. Black, Apr 8 p 47
Finns Lose No. 1 Slot in Russian Trade Race, Jan 21 p 21
Foreign Cutthroats May Shut Mills, by G. J. McManus, May 20 p 49
Foreign Steel for Hedging? Users Can't Count on It, by G. J. McManus, Jan 14 p 47
GM Takes a Back Seat Overseas, by D. N. Williams, Feb 25 p 23
ISIS Sees Spending Up, Export Demand Down, Jan 21 p 54
Irish Try Sharing Industry Green, Apr 15 p 25
Japan Plans to Renew Steel Import Quota, Feb 25 p 25
Japan Shows No Mercy to U. S. Car Market, Feb 18 p 25
Japanese Trade Firms Upset with GM Proposal, Mar 11 p 25
Make Trade, Not War with Red Bloc, by K. W. Bennett, Mar 4 p 44
Nationalism: Latin America's Big Schtik, by I. G. Black, Apr 15 p 42

Russian Trade Roulette: The Odds Improve, by P. J. Cathey, June 24 p 45
Sound as a What? by Gene Beaudet, June 3 p 5
Steel Import Quotas Down to Nitty Gritty, by K. A. Kaufman, June 24 p 42
Steel Summary: Have Steel Men Lost Stainless Grip? May 20 p 89
To Russia With Profit—U. S. Tools, by D. N. Williams, June 17 p 39
Trading with Russians or Red Chinese: Who's the Best Bet? by K. A. Kaufman, June 17 p 40
U. S. Automakers Gain Japan Market Push, June 24 p 25
U. S. Drops Import Barriers for French Nickel, by K. A. Kaufman, Jan 28 p 20
U. S. Machine Builders Push Soviet Sales, May 13 p 25
USSR Inks $22.5 Million Pact with U. S. Company, June 10 p 25
Will Value Added Tax be Next U. S. System? Apr 1 p 25

Forgings

Forging Has an Appetite for Plastic, by B. D. Wakefield, Mar 18 p 81
Forging Joins its Competition, May 20 p 64
Forging Puts Copper on a Higher Plateau, Apr 15 p 29
Redesign of Dies Aids Automated Forging, May 27 p 83

Forward Planning Associates

Ecology, Consumer Sap Japan's Exports, by I. G. Black, Apr 8 p 47

Foundry Industry

Computer Untangles Foundry Problems, by B. D. Wakefield, Mar 25 p 57
Fast Sand Return Streamlines Foundry, Apr 22 p 82
Foundries Vie for Piece of the Energy Pie, by K. W. Bennett, Apr 8 p 44
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44

France

U. S. Drops Import Barriers for French Nickel, by K. A. Kaufman, Jan 28 p 20

Frankford Arsenal

Aluminum Powder Passes Exfoliation Test, June 17 p 27

Furnaces, Blast

Blast Furnace Complex: Steelmaking's Next Step? by K. W. Bennett, June 10 p 71
Japanese Attack Coke Problem, by N. B. Schwartz, Feb 18 p 58
Process Control Boost Blast Furnace Output, Jan 14 p 58

Furnaces, Brazing

Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51

Furnaces, Electric

Computer Controls Furnace Cycle, by B. D. Wakefield, Feb 11 p 82
Computer Scales Up Melt Shop Skills, by R. A. Wilson, May 6 p 57
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75
Redesign of Dies Aids Automated Forging, May 27 p 83

G

Galvanizing

What are the Automakers Doing to Stem the Corrosion Tide? by W. G. Patton, Apr 29 p 52

Gar Electroforming Div.:

Parts Grow in Plating Tanks, by T. H. Malim, Jan 21 p 42

Garrett Corp.:

Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51

Gaseous Fuels

Metallurgists Take a Close Look at a New Gas, by R. R. Irving, Apr 15 p 65
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 64

Gas Turbines

Williams Turns on Gas Car Turbine, by D. N. Williams, Jan 14 p 21

Gears

Automatic Gear Lapping Cuts Costs, by R. A. Wilson, May 20 p 66

Gemar Associates, Inc.:

Productivity Lag? Try These Ideas, by J. D. Baxter, May 13 p 63

General Accounting Office

GAO Asks Halt to Non-Defense Use of Test Gear, by K. A. Kaufman, Apr 22 p 21

General Bronze Corp.:

Metals Pick Up Speed in Building Materials Race, by I. G. Black, Apr 29 p 37

General Dynamics Corp.:

Managers: Reliability's Most Needed Customers, by I. G. Black, Feb 4 p 45

General Electric Co.:

Appliance Men Plug in to Happy Times, by K. W. Bennett, June 3 p 48
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51
Flame Cutter Carves Out Variety in Big Parts, by B. D. Wakefield, Mar 4 p 61
Hot Metal Detectors Trigger Action, May 20 p 62
Injection Molding Shoots for Size, by B. D. Wakefield, Apr 22 p 75
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51
Lexan 500 Makes Waves, Jan 21 p 23
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53
The New Profit Power in NC Lathes, by J. E. Sandford, June 17 p 51
The Sensuous Meter by 'C', by R. A. Wilson, Mar 11 p 41
TiC Cutters Take it All Off, by R. A. Wilson, Mar 18 p 67

General Mills, Inc.:

Who Will Do It is Planning's Big Problem, by K. W. Bennett, June 17 p 41

General Motors Corp.:

'Atomic Tool' Speeds Cutting Tests, May 6 p 53
Automakers' Parts Reduction Drive Gathers Steam, by D. N. Williams, June 3 p 23
Auto Rules: A Blessing in Disguise? by D. N. Williams and James Beizer, Mar 25 p 39
Autos: Can Good Faith Beat Bad Air? by D. N. Williams, May 13 p 55
Axle Line Scores Some Firsts, by W. G. Patton, Feb 4 p 58
The Clam Flavored, Lemon Colored Tailgate, by D. N. Williams, Apr 29 p 23
Coming Soon-the "Cleanmobile 8", by D. N. Williams, June 10 p 23
Corvette Goes Mid-Engine in '73, by D. N. Williams, Apr 15 p 23
Exhaust Rules: Are the Trade-offs Worth It? by D. N. Williams, May 20 p 23
Finding Ways to Light Their Fire, by D. N. Williams, June 3 p 53
Firebird/Camaro: Could this be Goodbye? by D. N. Williams, May 13 p 23
Ford, GM Disagree on Striker Aid, June 10 p 19
GM Takes a Back Seat Overseas, by D. N. Williams, Feb 25 p 23
GM Tips Hand on Safety Systems, by D. N. Williams, Feb 4 p 19
GM to Halt Discharge of Waste into Hudson, Jan 21 p 19
GM Unveils Laundry List for '75 Engines, by D. N. Williams, June 17 p 23
'Gift Wrapping' May Stop Car Theft, by D. N. Williams, Jan 28 p 21
Is the Auto a Status Dropout? by D. N. Williams, Apr 8 p 41
Japanese Trade Firms Upset with GM Proposal, Mar 11 p 25
Lordstown Plant: GM's New Mark of Excellence? by D. N. Williams, Mar 11 p 39
Noise Control Begins at the Source, by D. N. Williams, Feb 11 p 60
Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53
So Goes Detroit; So Goes the Recovery? by D. N. Williams, Apr 15 p 48
Tool Builder Automates Expansion, by B. D. Wakefield, Mar 18 p 82
The Tyranny of Campaign GM, by Gene Beaudet, May 27 p 5
UAW Settles Sundstrand; Rumors Float at Fisher, May 20 p 19
U. S. Automakers Gain Japan Market Push, June 24 p 25
The Vega & Pinto: Who's Papa? by D. N. Williams, Apr 1 p 23
What are the Automakers Doing to Stem the Corrosion Tide? by W. G. Patton, Apr 29 p 52
When Will the Wankel Make It? by D. N. Williams, Feb 25 p 57
A Word for 'Generous Monster', by D. N. Williams, Mar 18 p 22

Geometron Co., Inc.:

Abrasive Cut-Off Has New Angles, by T. H. Malim, Jan 28 p 52
Abrasives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55

Germany

Italy, Germany Latest Caught in Wage Pinch, May 13 p 25
Process Control Boosts Blast Furnace Output, Jan 14 p 58

Giddings & Lewis Machine Tool Co.:

Gisholt Closing Shakes Builders, by K. W. Bennett, Jan 28 p 39
Sure, Machine Tool Sales Will Get Better—But When? by R. A. Wilson, Jan 7 p 76
Tooling 'Service Center' Stirs Machine Market, by K. W. Bennett, May 6 p 40

Gilmore Industries, Inc.:

Accuracy Tips Scale for Ingot Pouring, by R. A. Wilson, June 10 p 84

Gisholt Machine Co.:

Gisholt Closing Shakes Builders, by K. W. Bennett, Jan 28 p 39

Gleason Works

Automatic Gear Lapping Cuts Costs, by R. A. Wilson, May 20 p 66
To Russia with Profit—U. S. Tools, by D. N. Williams, June 17 p 39
USSR Inks $22.5 Million Pact with U. S. Company, June 10 p 25

Joseph Goder Incinerators

Incinerators Fire Up in Cold Economy, by K. W. Bennett, June 10 p 72

Goldberg-Emerman Corp.:

Tooling 'Service Center' Stirs Machine Market, by K. W. Bennett, May 6 p 40

B. F. Goodrich Co.:

Beryllium Brakes Stop C-5 Coil, May 27 p 29
Industrial Health: URW, Goodrich Begin Study, June 24 p 19

Goodyear Tire & Rubber Co.:

Occupational Skepticism & Harrasment Act of 1970? by C. J. Suchocki, June 17 p 44
Safety: It Starts at the Track, by N. B. Schwartz and Stan Stephenson, May 13 p 69

Gottschall Tool and Die Inc.:

Searching for a Golden Goose, by R. A. Wilson, Apr 8 p 43

Gould, Inc.:

Recession Eats Auto Parts' Dust, by K. W. Bennett, Mar 18 p 64

Government

Administration Dredges Up 1899 Pollution Law, by K. A. Kaufman, Jan 7 p 21
Auto Rules: A Blessing in Disguise? by D. N. Williams and James Beizer, Mar 25 p 39
Can Consumer Guardians and White House Agree? by K. A. Kaufman, Mar 4 p 21
Can Nixon Hold Hardhat Demands at Bay? by K. A. Kaufman, Apr 8 p 19
Can U. S. Stay Out of Steel Talks? by K. A. Kaufman, Apr 22 p 59
Depreciation Reform is Alive and Well, by K. A. Kaufman, Jan 14 p 19
Efforts to Aid Unemployment May Get Nixon Veto, by K. A. Kaufman, June 10 p 21
Friedman: Don't Let it All Hang Out, by D. N. Williams, Mar 18 p 63
GAO Asks Halt to Non-Defense Use of Test Gear, by K. A. Kaufman, Apr 22 p 21
Here's How It Is, Steelmen Tell U. S., by K. A. Kaufman, May 27 p 69
High Court Shoves Pollution Lawsuits Back on States, by K. A. Kaufman, Apr 1 p 21
Industry Ho-Hums Write-Off Reform, Jan 21 p 29
Is Mills Really Robin Hood? by K. A. Kaufman, Mar 18 p 61
It Couldn't Have Been Said Better, by Gene Beaudet, May 13 p 5
Justice Lowers the Boom on Kennecott Copper Co., by K. A. Kaufman, Jan 21 p 19
Labor: A Hands-Off Policy that Slaps, by G. J. McManus, June 10 p 70
Lessons from Andy Williams and the Bear, by Gene Beaudet, Mar 4 p 5
Let Me Make This Perfectly Clear, by Gene Beaudet, June 24 p 5
Love Story '72: Another Best Seller? by Gene Beaudet, Feb 11 p 5
Meany Scores Nixon's Economic 'Busybodies', June 3 p 19
Nixon Budget Deficit Will Hold If —by K. A. Kaufman, Feb 4 p 44
Nixon Calls Meeting to Plan 1990 Society, Apr 22 p 21
Nixon Dons Mr. Clean Uniform in Ecology War, by K. A. Kaufman, Feb 18 p 42
Nixon Mixing Politics and Tax Reform, by K. A. Kaufman, Jan 7 p 78
Nixon-Muskie Seek Crackdown on Water Pollution, Mar 25 p 11

Nixon Says USS's Boost is Just Small Enough, by G. J. McManus and K. A. Kaufman, Jan 21 p 32
Nixon Tightens Wage-Price Screws, by K. A. Kaufman, Mar 4 p 41
Nixon's NLRB: Like Father, Like Son? by K. A. Kaufman and C. J. Suchocki, Mar 4 p 50
Reciprocity Attack Swings from Steel to Aluminum, by K. A. Kaufman, June 3 p 21
"Rome is Burning," Say Steelmen, by G. J. McManus, Jan 28 p 40
We Hope This is Just a Start, by Gene Beaudet, Apr 1 p 5
Well, We're Disappointed, Too, by Gene Beaudet, June 10 p 5
White House Warning: Price Hikes Can Open Import Floodgates, by K. A. Kaufman, Jan 21 p 33
Will Consumer Spending Rise be Disappointing? by K. A. Kaufman, Apr 29 p 21
Will Wilbur Come to the Rescue? by Gene Beaudet, Apr 29 p 5

Granite City Steel Co.:
Rift Grows Over Antitrust Policies, by G. J. McManus, Apr 29 p 35

Graphel Inc.:
EDM Tackles Tough Metal Removal, Apr 8 p 64

Graver Tank & Mfg. Co.:
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59

G. A. Gray Co.:
Cutting Costs? Try Going to Workers, They'll Help, by P. J. Cathey, Apr 29 p 38
Sure, Machine Tools Sales Will Get Better—But When? by R. A. Wilson, Jan 7 p 76

Green Giant Co.:
Lean Builders Eye Food Machine Diet, by K. W. Bennett, Feb 4 p 39

Greenlee Tool Co.:
What Good are the Shakes? by T. H. Malim, Jan 14 p 56

Grinding
Grinding Away at Steel Defects, by T. H. Malim, June 3 p 60
Grinding Jobs Multiply for Coated Abrasives, by B. D. Wakefield, Mar 18 p 79
The Self-Teaching Machine is Here, by J. E. Sandford, Apr 8 p 63
Special Cutter Saves a Million, June 24 p 60

Grinding Wheel Institute
Abrasives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55

Grumman Aerospace Corp.:
The Executive's Third Ear . . ., by S. H. Hockenberty, Apr 1 p 47
Laser Metrology Sharpens its Costs, by J. E. Sandford, Apr 8 p 57

Guardsmark, Inc.:
Handling the Phone Call that Chills the Bones, Mar 11 p 27

Gulf Research and Development Co.:
Metallurgy Sharpens its Vision, by T. H. Malim, June 10 p 79

H

Halle & Stieglitz
Going Public? Give it More Thought First, Apr 22 p 25

Hamar Laser Instruments, Inc.:
Laser Metrology Sharpens its Costs, by J. E. Sandford, Apr 8 p 57

Hamilton Standard Div.:
Electron Beam Tools Play Waiting Game on Orders, by T. H. Malim, Feb 25 p 45

Hancock Machine Co.:
New Lathes Fill Profit Gap, by R. A. Wilson, Feb 25 p 44

Handy Associates
Executive Job Hunting Still Tough, May 13 p 19
Executive Job Mart: It's Better, Now, But— Feb 25 p 27

Harnischfeger Corp.:
Earthmovers Plow Into Machine Buys, by K. W. Bennett, Feb 11 p 56
Tool Builder Automates Expansion, by B. D. Wakefield, Mar 18 p 82

Harris Press & Shear Div.:
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59

Edward N. Hay & Associates
How to Keep from Blowing Your Cool, May 13 p 27
Training Helps When Times are Tough, June 10 p 27

Hayes-Albion Corp.:
Technology 'As You Like It', by W. G. Patton, May 27 p 80

Hayes Heat Treating Co.:
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51

Hazelett Strip-Casting Corp.:
Nor'Easters May Weather Industrial Squalls, by T. H. Malim, June 24 p 48
Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53

Health Programs
Industrial Health: URW, Goodrich Begin Study, June 24 p 19

Heat Detectors
SEE Thermal Radiation

Heat Exchangers
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51

Heat Treating
"Flip Tops" Keep Soaking Pits Hot, Apr 29 p 56
Heat Treating Process Checks Pollution, by B. D. Wakefield, Apr 22 p 80
Thermal Method Removes Burrs, June 24 p 58

Heidrick and Struggles
Demand for Managers Will Recover—Slowly, Jan 14 p 25
Hurrah More Managers Wanted, Apr 8 p 23

Heintz Div.:
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53

Hewlett-Packard Corp.:
Laser Metrology Sharpens its Costs, by J. E. Sandford, Apr 8 p 57
A Straight Line to Accuracy, June 17 p 57

Hickman-Williams Co.:
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44

Highways
New Highway Design Criteria Approved, Feb 11 p 28

Hobart Bros. Co.:
Electroslag Welding Repairs Worn Rolls, Jan 14 p 27
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59
Why Not Combine Melting, Fabrication, by R. R. Irving, Mar 11 p 53

Hoeganaes Corp.:
Production Welding of PM Parts Comes of Age, by B. D. Wakefield, Jan 21 p 39

Honeywell, Inc.:
Can Sword-and-Space Engineers Change their Spots? May 20 p 25
Determining the Go, No-Go Conditions, May 20 p 25
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51

Houdaille Industries, Inc.:
Toolmen Cry 'Investment Credit Now', by R. A. Wilson, Apr 15 p 45
Tube Bending Technology Shapes a Firm Future, by B. D. Wakefield, Apr 1 p 54

Housing
Modular Homes: Now is the Hour? by K. W. Bennett, Feb 18 p 39
Romney Pins Hopes on Factory-Built Homes, Jan 14 p 19

Hughes Aircraft Co.:
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51

Hungary
To Russia with Profit—U. S. Tools, by D. N. Williams, June 17 p 39

I

IIT Research Institute
Forging Has an Appetite for Plastic, by B. D. Wakefield, Mar 18 p 81
Metallurgy Sharpens its Vision, by T. H. Malim, June 10 p 79

Illini Welding Supplies
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 64

A. A. Imberman
What's Really Causing Those Strikes? Mar 4 p 27

Incinerators
Incinerators Fire Up in Cold Economy, by K. W. Bennett, June 10 p 72

Industrial Briefs, Name Changes, Mergers, Acquisitions, Contracts

Industrial Relations
Barriers to Making Jobs Interesting, May 6 p 25
Business Shuns Role as Society's Superman, Feb 11 p 27
Consultant Lets Managers Have It, Apr 1 p 27
Does it Make a Difference if You Dislike Him? Apr 15 p 27
The Executive's Third Ear . . ., by S. H. Hockenberry, Apr 1 p 47
Finding Ways to Light Their Fire, by D. N. Williams, June 3 p 53
First Get the Facts Man, Get the Facts, June 3 p 25
Four-Day Workweek: Organizational Malpractice? May 6 p 25
Handle Marginal Employee the Way He Should be Handled, by D. N. Williams, Feb 4 p 46
Handling the Phone Call that Chills the Bones, Mar 11 p 27
Is This Why U. S. Productivity Went Sour? Mar 4 p 27
NLRB Blocks Move to Bar Strike Insurance, Jan 7 p 19
Occupational Skepticism & Harrasment Act of 1970? by C. J. Suchocki, June 17 p 44
Search for Business Soul in Nation's Ghettos, June 3 p 25
These are Not Just a Bunch of 'Joes', by Gene Beaudet, May 20 p 5
What's Bugging Manufacturing Managers, by P. J. Cathey, Mar 25 p 44
What's Bugging those People in the Plant? June 10 p 27

Industrial Security
Blowing the Whistle on Corporate Spies, Jan 21 p 22
Handling the Phone Call that Chills the Bones, Mar 11 p 27

Information Instruments, Inc.:
Computer's Kid Brother Comes of Age, by D. N. Williams, Feb 18 p 41

Information Systems
Computer's Got to Learn Humility, Mar 18 p 26
Management Information Systems Really Aren't, Mar 18 p 26

Ingersoll Milling Machine Co.:
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53
Some Machine Builders Expand Despite Slump, by K. W. Bennett, June 17 p 43

Ingersoll Products Div.:
Farm Tool Maker Turns Hardcoater, by B. D. Wakefield, Jan 28 p 54

Ingots
Accuracy Tips Scale for Ingot Pouring, by R. A. Wilson, June 10 p 84

Injection Molding
SEE: Molding, Molds

Inland Steel Co.:
Blast Furnace Complex: Steelmaking's Next Step? by K. W. Bennett, June 10 p 71
Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46
Whipping Boy Steel Whips Back, by G. J. McManus, May 6 p 35

Inquiries, Keyed Numbers for Reader Information Service

Inspiration Consolidated Copper Co.:
U. S. Copper Price Yo-Yos Up 2¢, by James Beizer, Apr 1 p 45

Institute of Gas Technology
Coal Gas Plants Begin Pilot Pipe Flows, by I. G. Black, Jan 14 p 46

Institute of Scrap Iron & Steel
ISIS Sees Spending Up, Export Demand Down, Jan 21 p 54

Instrumentation
The Sensuous Meter by 'C', by R. A. Wilson, Mar 11 p 41

Integrated Circuits
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51

Interferometers
A Straight Line to Accuracy, June 17 p 57

Interlake, Inc.:
High Court Shoves Pollution Lawsuits Back on States, by K. A. Kaufman, Apr 1 p 21

Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53

International Business Machine Corp.:
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51
Make Trade, Not War With Red Bloc, by K. W. Bennett, Mar 4 p 44
Multilevel Control is Near, May 13 p 73

International Harvester Co.:
Chrysler Fights Deadline; IH Hit by UAW Walkout, Jan 21 p 18
Farm Machinery Sows its Oats for '71, by K. W. Bennett, Feb 25 p 42

International Iron and Steel Institute
Only U. S. Lags in IISI Raw Steel Production, Feb 11 p 25

International Lead-Zinc Research Organization
What are the Automakers Doing to Stem the Corrosion Tide? by W. G. Patton, Apr 29 p 52

International Nickel Co.:
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53

International Relations
Aussies Boost Trade to Communist Countries, May 27 p 25
Australia Wants a Piece of Its Action, by James Beizer, Feb 11 p 65
Finns Lose No. 1 Slot in Russian Trade Race, Jan 21 p 21
Irish Try Sharing Industry Green, Apr 15 p 25
Italy, Germany Latest Caught in Wage Pinch, May 13 p 25
Japan Plans to Renew Steel Import Quota, Feb 25 p 25
Make Trade, Not War With Red Bloc, by K. W. Bennett, Mar 4 p 44
Nationalism: Latin America's Big Schtik, by I. G. Black, Apr 15 p 42
Peru Orders U. S. Companies, 'Pay Up or Get Out', by James Beizer, Jan 14 p 67
Romania Rolls Out Welcome Mat for U. S., Feb 4 p 21
USSR Inks $22.5 Million Pact with U. S. Company, June 10 p 25
Uncle Sam: Scapegoat for Chile's Woes, by James Beizer, Mar 25 p 85
Will Value Added Tax be Next U. S. System? Apr 1 p 25

International Telephone & Telegraph Corp.:
Is Zero Defects Still Alive and Well? by P. J. Cathey, Feb 25 p 50
Promote QC to Executive Status, by K. W. Bennett, May 27 p 66

International—Weekly Reports (See Also Subject Classifications, Foreign Trade, Individual Countries)

Inventories
Put Override on Computer's Role, by R. A. Wilson, June 10 p 75
Service Centers are Pulling All the Stops for Sales Success, by K. W. Bennett, May 6 p 45
Steel Summary: Always Something to Worry About, Mar 18 p 111
Steel Summary: Delivery Times Continue to Stretch, Apr 15 p 81
Steel Summary: 11 Million Ton Buildup Starts, Feb 11 p 107
Steel Summary: Inventory Boom Gets Underway, Jan 14 p 65
Steel Summary: No Panic in Handling the Buildup, May 13 p 91
Steel Summary: Problem Now is Finding Wheels, Apr 8 p 77
Steel Summary: Watch for Two Trouble Areas, Feb 25 p 71

Ipsen Industries
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51
Computer Controls Furnace Cycle, by B. D. Wakefield, Feb 11 p 82
Heat Treating Process Checks Pollution, by B. D. Wakefield, Apr 22 p 80

Ireland
Irish Try Sharing Industry Green, Apr 15 p 25
Mining Auld Sod? Luck of the Irish Will Help, by James Beizer, Apr 8 p 79

Iron Ore
Australia Wants a Piece of Its Action, by James Beizer, Feb 11 p 65
Cancel the Burial at Sea; Shipbuilding Resuscitated, by R. A. Wilson, May 6 p 37

Island Creek Coal Co.:
The Energy Pinch Releases Its Grip, by G. J. McManus, May 27 p 63

Isuzu Motors Ltd.:
U. S. Automakers Gain Japan Market Push, June 24 p 25

Italy
Italy, Germany Latest Caught in Wage Pinch, May 13 p 25

J

Jacksonville Blow Pipe Co.:
Mill Speeds Aluminum to a New Life, by J. J. Obrzut, Apr 22 p 81

Japan
Believe it or Not—Ringi Works, Jan 7 p 27
Controlled Al-Killing Degassing of Steel, May 20 p 27
Ecology, Consumer Sap Japan's Exports, by I. G. Black, Apr 8 p 47
Foreign Steel for Hedging? Users Can't Count on It, by G. J. McManus, Jan 14 p 47
How Managers Reach Decisions, Jan 7 p 27
Japan-Canada Coal Talks Leave Kaiser Sweating, by Jack Miller, May 13 p 57
Japan Plans to Renew Steel Import Quota, Feb 25 p 25
Japan Shows No Mercy to U. S. Car Market, Feb 18 p 25
Japanese Attack Coke Problem, by N. B. Schwartz, Feb 18 p 58
Japanese Machine Tool Sales Continue Plunge, Feb 4 p 21
Japanese Tool Makers Chart Market Course, Mar 18 p 24
Japanese Trade Firms Upset with GM Proposal, Mar 11 p 25
No Sacrifices for the Superstate, by I. G. Black, Apr 8 p 47
Steel Import Quotas Down to Nitty Gritty, by K. A. Kaufman, June 24 p 42
Steel Study Rides a Painted Pony, by G. J. McManus, Mar 11 p 43
Steel Summary: Are More Dumping Charges Coming? Feb 18 p 71
Technology Goes the Other Way, Mar 18 p 28
Two Can Play the Price Game, Jan 14 p 47
U. S. Automakers Gain Japan Market Push, June 24 p 25

Japan Machine Tool Trade Assn.:
Japanese Tool Makers Chart Market Course, Mar 18 p 24

Jeffrey Mining Machinery Co.:
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53
The New Power Profit in NC Lathes, by J. E. Sandford, June 17 p 51

Jones & Lamson Div.:
Machine Tools Meet New Masters, by J. E. Sandford, Feb 8 p 53
The New Power Profit from NC Lathes, by J. E. Sandford, June 17 p 51

Jones & Laughlin Steel Corp.:
Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46
Recovery: A Case of Tired Blood? by G. J. McManus, June 3 p 45
Strong Steels Take Severe Bends, by B. D. Wakefield and R. R. Irving, June 3 p 57
Whipping Boy Steel Whips Back, by G. J. McManus, May 6 p 35

Joslyn Stainless Steel Div.:
Stainless War Rages Despite Discount, by K. W. Bennett, May 20 p 48

K

Kahn, Herman
Believe it or Not—Ringi Works, Jan 7 p 27
How Japanese Managers Reach Decisions, Jan 7 p 27

Kaiser Steel Corp.:
Japan-Canada Coal Talks Leave Kaiser Sweating, by Jack Miller, May 13 p 57

Kawecki Berylco Industries, Inc.:
Dual Drives at Top Makes Merger Work, by J. D. Baxter, Jan 28 p 43

Kearney & Trecker Corp.:
Gisholt Closing Shakes Builders, by K. W. Bennett, Jan 28 p 39
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53
The New Power Profit in NC Lathes, by J. E. Sandford, June 17 p 51
Sure, Machine Tool Sales Will Get Better—But When? by R. A. Wilson, Jan 7 p 76
Tool Builder Automates Expansion, by B. D. Wakefield, Mar 18 p 82

Kelley Co.:
Incinerators Fire Up in Cold Economy, by K. W. Bennett, June 10 p 72

Kelsey-Hayes Co.:
Automen Eye Change to Steel Disc Brakes, by D. N. Williams, Jan 7 p 23
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53

Kelso Marine, Inc.:
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59

Kennametal, Inc.:
TiC Cutters Take it All Off, by R. A. Wilson, Mar 18 p 67

Kennecott Copper Corp.:
AIME Fashions the Renaissance Man, by James Beizer, Mar 11 p 44
A Chile Mine Takeover Puts the Heat on Kennecott, by James Beizer, June 3 p 75
"Complaining About the Mean Old Copper Barons", by James Beizer, May 13 p 93
Copper and Religion Don't Mix in Puerto Rico, by James Beizer, Feb 18 p 73
Copper's Song of Sulphur: A Pocketful of Wry, by James Beizer, June 24 p 75
How Much is Too Much for Clean Air? by James Beizer, Apr 29 p 64
Justice Lowers the Boom on Kennecott Copper Co., by K. A. Kaufman, Jan 21 p 19
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53
Yeah, But How Much Does it Cost? by James Beizer, Jan 21 p 31

Samuel Klein Corp.:
Fast Sand Return Streamlines Foundry, Apr 22 p 82

Kobe Steel, Ltd.:
Technology Goes the Other Way, Mar 18 p 28

Koehring Corp.:
Earthmovers Plow Into Machine Buys, by K. W. Bennett, Feb 11 p 56

Koppers Co., Inc.:
Foundries Vie for Piece of the Energy Pie, by K. W. Bennett, Apr 8 p 44
Rift Grows Over Antitrust Policies, by G. J. McManus, Apr 29 p 35
Steel's Worst Product—Productivity, by G. J. McManus, Feb 25 p 49
Tax Cut? Yes, But Don't Ask How, When and Why, by G. J. McManus, Apr 15 p 44

Fried. Krupp GmbH Industriebau
Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53

Kubota, Ltd.:
Curtain Wall: More than Skin Deep, by A. M. Greene, May 27 p 77

Kvaener-Moss, Inc.:
Wanted: Tankers to Haul LNG, by R. R. Irving, Mar 25 p 53

L

Labor
ALA: Now it's Meany's Turn to Gloat, May 20 p 19
ALA: Still Alive, But Not too Well, June 3 p 19
AMC Talks: GM Was Never Like This, by D. N. Williams, Apr 15 p 46
Aluminum, Building: Pass the Catch Up, by G. J. McManus, Mar 25 p 42
Benefits Tilt Prefaces UAW-Tool Shop Talks, Jan 7 p 19
The Best Kept Secret of Our Times, by G. J. McManus, Jan 7 p 85
Blough Attacks Wage Hikes, Approves Fed Aid, June 17 p 19
Can Nixon Hold Hardhat Demands at Bay? by K. A. Kaufman, Apr 8 p 19
Can Steelworkers Live in Moderation? by G. J. McManus, Mar 18 p 70
Can U. S. Stay Out of Steel Talks? by K. A. Kaufman, Apr 22 p 59
Chrysler Fights Deadline; IH Hit by UAW Walkout, Jan 21 p 18
Chrysler Offer Spurned; Back Pay, Salaries Hit, Jan 14 p 17
Construction: Next Step Wage-Price Freeze? Feb 25 p 19
Copper Talks: C-O-L Glows Green, by J. M. Brimberg, Mar 4 p 48
Copper Talks: Wake Me When It's Over, by James Beizer, June 24 p 39
Cort Sizes Up Wage-Price Climate, by G. J. McManus, Apr 8 p 50

Crocodile Tears Open Aluminum Labor Talks, by James Beizer, Apr 22 p 115
DOL Head Beats Drum for Rail Law Reform, June 10 p 19
DOL Won't Leave Engineers Defenseless, Mar 18 p 18
Efforts to Aid Unemployment May Get Nixon Veto, by K. A. Kaufman, June 10 p 21
Employers Face Bigger Bite for Jobless Pay, May 6 p 19
Engineers Map Course for Federal Job Fund, Apr 22 p 19
The Executive's Third Ear . . ., by S. H. Hockenberry, Apr 1 p 47
Federal Aid to Lockheed a Big Risk, Says UAW, June 24 p 19
First Quarter Wage Gains Set New Record High, May 6 p 19
Ford, GM Disagree on Striker Aid, June 10 p 19
Hodgson's Hope: Labor Reform Bill in '71, Jan 14 p 17
Incomes Policy Coming? USWA Talks Will Decide, by G. J. McManus, Jan 21 p 35
Industrial Health: URW, Goodrich Begin Study, June 24 p 19
Job-Bias Law Waits on Party Fight Outcome, Apr 15 p 19
Jobless Benefits: Not All Who Ask Receive, Feb 11 p 19
Labor: A Hands-Off Policy that Slaps, by G. J. McManus, June 10 p 70
Long Copper Strike Not Likely in 1971, by James Beizer, Jan 28 p 42
Manpower Money: Put it Where OJT Is, Feb 4 p 15
Meany Scores Nixon's Economic 'Busybodies', June 3 p 19
Mineworker Head Hit With Fraud Charge, Mar 11 p 19
NAPM Votes 9 to 1 for Steelworkers' Walkout, May 27 p 19
NLRB Blocks Move to Bar Strike Insurance, Jan 7 p 19
Nixon Asks Power to Avert Rail Strike, Feb 18 p 19
Nixon, Hard-Hats Head for Open Warfare, May 13 p 19
Nixon's NLRB: Like Father, Like Son? by K. A. Kaufman and C. J. Suchocki, Mar 4 p 50
Path Cleared for Selective Rail Strikes, Apr 8 p 17
Pay Poor Engineers Torn Between Unions and Job, by C. J. Suchocki, Apr 29 p 40
Public Jobs Bill: Almost in the Bag, Mar 25 p 17
Rail Talks: Somehow the Trains Will Roll, Mar 4 p 19
The Sabbath Day, Grows Longer, by D. N. Williams, Jan 28 p 36
Selective Strikes, Canners Crowd Steelworkers, Feb 25 p 19
Signalmen Shrug Off Fat Wage Offer, Apr 22 p 19
Signalmen Stage Costly Rerun, by D. N. Williams, May 27 p 65
Steel Bargaining: Head-On Collision, by G. J. McManus, May 27 p 68
Steel Labor: Can Talks Aren't the Only Show, Feb 18 p 19
Steel: Non-economic Issues Could Decide, June 3 p 19
Steel Talks: Louder Maybe, But Not Longer, Apr 1 p 19
Steel's Worst Product—Productivity, by G. J. McManus, Feb 25 p 49
UAW Bargains to Keep Supply Lines Open, by D. N. Williams, Feb 25 p 48
UAW Demands Threaten XLO Unit, Apr 15 p 19
UAW Offers AMC Extended Big Three Pact, Mar 11 p 19
UAW On a Four-Day Week: Feedback Affirmative, May 27 p 19
UAW Settles Sundstand; Rumors Float at Fisher, May 20 p 19
UAW Shows its 'Management' Colors, Apr 15 p 46
UMW Walkout in Homage to Strength of Boyle? June 24 p 19
USWA Strikes Canmakers After National Settles, by K. A. Kaufman, Feb 18 p 43
USWA—Thinking Big for 1971, by G. J. McManus, Feb 11 p 59
Unemployment Labelled Top Issue in '71, Jan 28 p 19
Wage Demands: Like Going Up the Downstairs, by G. J. McManus, Apr 8 p 46
Wage Hikes Maintain Record Pace in '70, Jan 21 p 18
Well, We're Disappointed, Too, by Gene Beaudet, June 10 p 5
What's Really Causing Those Strikes? Mar 4 p 27
White-Collar Drive Rates Only Fair in '70, Apr 29 p 19

Laboratory Equipment Corp.:
Gas-Sleeve Nozzle Casts Killed Steel, Apr 22 p 26

Langenau Mfg. Co.:
Slotted Metal Fits Into Many Structural Slots, by B. D. Wakefield, Feb 25 p 60

Larson Boat Co.:
Will Fun Get Consumer Buying Going? by K. W. Bennett and R. A. Wilson, Jan 14 p 41

LaSalle Machine Tool, Inc.:
Axle Line Scores Some Firsts, by W. G. Patton, Feb 4 p 58
The Laser Aids in Shipfitting, May 27 p 84

Lasers
Laser Metrology Sharpens its Costs, by J. E. Sandford, Apr 8 p 57
A Straight Line to Accuracy, June 17 p 57

Lathes
Card NC Tries Comeback with Swedish Managers, by K. W. Bennett, May 20 p 47
New Lathes Fill Profit Gap, by R. A. Wilson, Feb 25 p 44
The New Profit Power in NC Lathes, by J. E. Sandford, June 17 p 51
Put Override on Computer's Role, by R. A. Wilson, June 10 p 75

Lead
Lead: Commodity or Producer Item? Jan 21 p 31
The Materials Side of Leaded Fuel Battle, Jan 7 p 28
Tocco Sells 25 Valve Seat Hardeners to Cope with Low Lead, June 3 p 11
Yeah, But How Much Does it Cost? by James Beizer, Jan 21 p 31

Leasco Systems Corp.:
CPU, I/O, K, T/S and ALL that Sort of Jazz, Mar 25 p 25
That Does Not Compute, Does Not Compute . . . , Mar 25 p 25

LeBlond, Inc.:
New Lathes Fill Profit Gap, by R. A. Wilson, Feb 25 p 44

Legislation
AND Now—Back to Try Again—Import Curb Bill, by K. A. Kaufman, Feb 4 p 17
Congress Won't Sabotage Nixon's Write-Off Reform, by K. A. Kaufman, May 20 p 21
Critic's Hoopla Jabs Write-Off Reform, by K. A. Kaufman, Apr 22 p 64
DOL Head Beats Drum for Rail Law Reform, June 10 p 19
Democrats Pressure Nixon for Wage-Price Controls, by K. A. Kaufman, Feb 18 p 21
The Energy Pinch Releases Its Grip, by G. J. McManus, May 27 p 63
Is Mills Really Robin Hood? by K. A. Kaufman, Mar 18 p 61
Job-Bias Law Waits on Party Fight Outcome, Apr 15 p 19
Keeping Commercial Hands Off Defense Tooling, by K. A. Kaufman, Apr 15 p 21
Monopolies Lie at Root of U. S. Ills, Says Hart, Feb 18 p 21
Nixon-Muskie Seek Crackdown on Water Pollution, Mar 25 p 11
Occupational Skepticism & Harrasment Act of 1970? by C. J. Suchocki, June 17 p 44
Public Jobs Bill: Almost in the Bag, Mar 25 p 17
SST Still Lacks Congressional Wings, by K. A. Kaufman, Mar 11 p 21
Safety Act: Unsafe at Any Reading, by R. A. Wilson, June 10 p 67
Safety Bill: For Lawyers or Workers? by C. J. Suchocki, Apr 22 p 62
Senate Tries to Enlarge Warranty Fine Print, by K. A. Kaufman, June 24 p 21
Something's Got to Give: Defense Profit Figures Clash, by K. A. Kaufman, Mar 25 p 19
Steel Import Quotas Down to Nitty Gritty, by K. A. Kaufman, June 24 p 42

Letter to the Editor, Information Feedback from Readers

Levitt Building Systems, Inc.:
Modular Homes: Now is the Hour? by K. W. Bennett, Feb 18 p 39

Leybold-Heraeus, Inc.:
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75

Leyland Motors, Inc.:
Is the Auto a Status Dropout? by D. N. Williams, Apr 8 p 41

Linde Div.:
Electroslag Takes on Aluminum, by R. R. Irving, Apr 15 p 60
Grinding Away at Steel Defects, by T. H. Malim, June 3 p 60
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 64

Ling-Temco-Vought, Inc.:
Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46

Link Belt Products Div.:
"Flip Tops" Keep Soaking Pits Hot, Apr 20 p 56

Liquid Carbonic Corp.:
Flame Cutter Carves Out Variety in Big Parts, by B. D. Wakefield, Mar 4 p 61

Liquid Metals
Metallurgy Sharpens its Vision, by T. H. Malim, June 10 p 79

Arthur D. Little, Inc.:
Service Centers Thrive on Tapes, by T. H. Malim, Mar 25 p 58

Litton Systems, Inc.:
Wanted: Tankers to Haul LNG, by R. R. Irving, Mar 25 p 53

Lockheed Aircraft Corp.:
Aerospace Myths: Or What Price Glory? by C. J. Suchocki, June 24 p 43
Engineers: Who'll Save Cock Robin? by C. J. Suchocki, June 24 p 43
Federal Aid to Lockheed a Big Risk, Says UAW, June 24 p 19
Is Lockheed's Survival the Issue? by Gene Beaudet, June 17 p 5

Lockheed-Georgia Co.:
Into the Air With Weld Bonding, by T. H. Malim, Mar 4 p 60

Lockheed Missiles & Space Co.:
Quality Control Says 'Go or No-Go', May 20 p 59
Special Cutter Saves a Million, June 24 p 60

Loctite Corp.:
Instant Adhesives Go 'Right On', by T. H. Malim, May 6 p 59

Lodding Engineering Corp.:
What Good are the Shakes? by T. H. Malim, Jan 14 p 56

Lodge & Shipley Co.:
NC Software's New Combo—NCCS Plus WORD, by J. E. Sandford, Jan 28 p 38
The New Power Profit from NC Lathes, by J. E. Sandford, June 17 p 51

Lubricants
Lubricants Work Hot and Cold, Mar 4 p 58

Joseph Lucas (Industries) Ltd.:
The Red Coats are Coming—Back! by D. N. Williams, Jan 21 p 20

Lummus Co.:
Japanese Attack Coke Problem, by N. B. Schwartz, Feb 18 p 58

Lurgi Canada
Will Abundant Scrap Cool DR'S Charm? by G. J. McManus, Apr 15 p 47

M

McKay Co.:
What They Want from Candidate Materials, Mar 25 p 56

McNaulin Incinerators, Inc.:
Incinerators Fire Up in Cold Economy, by K. W. Bennett, June 10 p 72

MAPP Products Dept.:
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 64

Machine Specialties
It Takes More than a Sharp Pencil, by K. W. Bennett, Mar 25 p 47

Machine Tools
Automatic Gear Lapping Cuts Costs, by R. A. Wilson, May 20 p 66
Axle Line Scores Some Firsts, by W. G. Patton, Feb 4 p 58
Computer's Kid Brother Comes of Age, by D. N. Williams, Feb 18 p 41
Cutting Costs? Try Going to Workers, They'll Help, by P. J. Cathey, Apr 29 p 38
Gisholt Closing Shakes Builders, by K. W. Bennett, Jan 28 p 39
Inspection Cuts NC Downtime, by R. A. Wilson, Mar 11 p 56
Japanese Machine Tool Sales Continue Plunge, Feb 4 p 21
Japanese Tool Makers Chart Market Course, Mar 18 p 24
Laser Metrology Sharpens its Costs, by J. E. Sandford, Apr 8 p 57
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53
Machine Tools: 'Now' is Bad, Will 'Later' be Better? Apr 8 p 11
Nationalism: Latin America's Big Schtik, by I. G. Black, Apr 15 p 42
New Lathes Fill Profit Gap, by R. A. Wilson, Feb 25 p 44
'72 Tool Show: World Competition in Old Event, by R. A. Wilson, Apr 8 p 45
Now They'll Guarantee Your Finishing Costs, by S. H. Hockenberry, May 20 p 50

Press Builders: Long on Optimism, Short on Orders, by K. W. Bennett, Jan 21 p 34
Put Override on Computer's Role, by R. A. Wilson, June 10 p 75
Recession Eats Auto Parts' Dust, by K. W. Bennett, Mar 18 p 64
Service Centers Thrive on Tapes, by T. H. Malim, Mar 25 p 58
Some Machine Builders Expand Despite Slump, by K. W. Bennett, June 17 p 43
Sometimes the Old Ways are Best, by D. N. Williams, Apr 29 p 39
Sure, Machine Tool Sales Will Get Better—But When? by R. A. Wilson, Jan 7 p 76
To Russia with Profit—U.S. Tools, by D. N. Williams, June 17 p 39
Tool Builders Hope Depreciation Will Build Sales; Orders Inch Up, Apr 29 p 13
Tooling 'Service Center' Stirs Machine Market, by K. W. Bennett, May 6 p 40
Toolmen Cry 'Investment Credit Now', by R. A. Wilson, Apr 15 p 45
U. S. Machine Builders Push Soviet Sales, May 13 p 25
Wherefore Art Thou, Machine Tool Buyers? May 27 p 13

Machinery Dealers National Assn.:

Tooling 'Service Center' Stirs Machine Market, by K. W. Bennett, May 6 p 40

Machining

'Atomic Tool' Speeds Cutting Tests, May 6 p 53
Grinding Jobs Multiply for Coated Abrasives, by B. D. Wakefield, Mar 18 p 79
Inspection Cuts NC Downtime, by R. A. Wilson, Mar 11 p 56
Plasma Moves Into Hot Machining, June 3 p 64
The Self-Teaching Machine is Here, by J. E. Sandford, Apr 8 p 63
Technology 'As You Like It', by W. G. Patton, May 27 p 80
Thermal Method Removes Burrs, June 24 p 58
What's Happening in Hot Machining? Jan 14 p 54

Mack Trucks, Inc.:

Russian Trade Roulette: The Odds Improve, by P. J. Cathey, June 24 p 45

Macoid Industries, Inc.:

Safety Rules Spark Glimmer of Hope, by D. N. Williams, Mar 4 p 23

Magnesium

1970 Aluminum Shipments Seesaw Down 7 Pct, by James Beizer, Jan 7 p 167

Magnetics, Inc.:

Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53

Maintenance Engineering

Good Plant Design Cuts Human Errors, by J. J. Obrzut, Apr 22 p 78
Maintenance: Hot Pants Over In-Plant Smoke, by R. A. Wilson, Apr 1 p 44

Majestic Co.:

Incinerators Fire Up in Cold Economy, by K. W. Bennett, June 10 p 72

Management

About "The Best Kept Secret", by Gene Beaudet, Jan 7 p 5
Barriers to Making Jobs Interesting, May 6 p 25
Believe it or Not—Ringi Works, Jan 7 p 26
Blowing the Whistle on Corporate Spies, Jan 21 p 22
Business Shuns Role as Society's Superman, Feb 11 p 27
But Featured Part is Welcomed, Feb 11 p 27
CPU, I/O, K, T/S and ALL that Sort of Jazz, Mar 25 p 25
Can Sword-and-Space Engineers Change their Spots? May 20 p 25
Can You Afford Not to Know What's Coming? Feb 4 p 23
Computer's Got to Learn Humility, Mar 18 p 26
Consultant Lets Managers Have It, Apr 1 p 27
Demand for Managers Will Recover—Slowly, Jan 14 p 25
Dialogues, Yes, Canned Speeches, No, June 17 p 25
Does it Make a Difference if You Dislike Him? Apr 15 p 27
Don't Gain Skill in Worrying, Think Solutions, Apr 29 p 24
Dual Drives at Top Makes Merger Work, by J. D. Baxter, Jan 28 p 43
Executive Job Mart: It's Better, Now, But— Feb 25 p 27
The Executive's Third Ear . . ., by S. H. Hockenberry, Apr 1 p 47
Finding the Right Man—and His Staff, Feb 4 p 23
Finding Ways to Light Their Fire, by D. N. Williams, June 3 p 53
Firing Executives Never Easy, Still— Feb 25 p 27
First Get the Facts, Man, Get the Facts, June 3 p 25
Four-Day Workweek: Organizational Malpractice? May 6 p 25
Going Public? Give it More Thought First, Apr 22 p 25
Handle Marginal Employee the Way He Should be Handled, by D. N. Williams, Feb 4 p 46
Handling the Phone Call that Chills the Bones, Mar 11 p 27
Have You Got Problems? Or, Conditions? by Gene Beaudet, Jan 21 p 5
How Japanese Managers Reach Decisions, Jan 7 p 27
How to Keep from Blowing Your Cool, May 13 p 27
Hurrah! More Managers Wanted, Apr 8 p 23
Ignoring Little Boxes that Fence Us In, Mar 11 p 27
Is This Why U. S. Productivity Went Sour? Mar 4 p 27
It Takes More than a Sharp Pencil, by K. W. Bennett, Mar 25 p 47
Learning to Dig the Young Managers, Feb 18 p 27
Lessons from Andy Williams and the Bear, by Gene Beaudet, Mar 4 p 5
Let Me Make This Perfectly Clear, by Gene Beaudet, June 24 p 5
Management Information Systems Really Aren't, Mar 18 p 26
Managers Give Drug Users Short Shrift, Jan 28 p 25
Managers: Reliability's Most Needed Customers, by I. G. Black, Feb 4 p 45
Productivity Lag? Try These Ideas, by J. D. Baxter, May 13 p 63
Put Override on Computer's Role, by R. A. Wilson, June 10 p 75
The Sabbath Day Grows Longer, by D. N. Williams, Jan 28 p 36
Shake Up Transportation Managing, Apr 15 p 27
Stop Jiving, Educator Tells Reformers, Apr 1 p 27
Students Don't Buy Social Concern 'Snow Job', June 17 p 25
Students Tell All: What It's Like in Industry, May 27 p 27
That Does Not Compute, Does Not Compute . . ., Mar 25 p 25
Tune In, Turn On, Stay on the Beam, May 13 p 27
Wait 'Til Next Year . . . And Next . . . And? by Gene Beaudet, Feb 18 p 5
Wanted: Manufacturing and Money Managers, Apr 22 p 25
Watch What You Do at Trade Group Meetings, Jan 28 p 25
What's Bugging Manufacturing Managers, by P. J. Cathey, Mar 25 p 44
What's Bugging those People in the Plant? June 10 p 27
Who Will Do It is Planning's Big Problem, by K. W. Bennett, June 17 p 41
Will White Pen New Verse for "Ballad of Bunkie", by R. A. Wilson, May 6 p 38
A World of Business in One Room, by S. H. Hockenberry, May 27 p 71

Manganese

Deepsea Nodules Yield Minerals, by B. D. Wakefield, May 13 p 74

Manufacturing Data Systems, Inc.:

The New Power Profit from NC Lathes, by J. E. Sandford, June 17 p 51
Service Centers Thrive on Tapes, by T. H. Malim, Mar 25 p 58

Market Digest, Weekly Page of Marketing

Marketing

Auto Rules: A Blessing in Disguise? by D. N. Williams and James Beizer, Mar 25 p 39
Copper: What Happens When Monetary Values Change, May 20 p 46
Cost-Price Shootout at Market Corral? by G. J. McManus, June 17 p 42
Japanese Tool Makers Chart Market Course, Mar 18 p 24
New Ventures Get Critical Eye, June 24 p 27
Recovery: A Case of Tired Blood? by G. J. McManus, June 3 p 45
Sure, Machine Tool Sales Will Get Better—But When? by R. A. Wilson, Jan 7 p 76

Massachusetts Institute of Technology

Oxide Coating Toughens Tools, Jan 21 p 23

Massachusetts Steel Treating Corp.:

What Good are the Shakes? by T. H. Malim, Jan 14 p 56

Massey-Ferguson, Ltd.:

Computer's Got to Learn Humility, Mar 18 p 26
Farm Machinery Sows its Oats for '71, by K. W. Bennett, Feb 25 p 42
Management Information Systems Really Aren't, Mar 18 p 26
Quality Control Men: Our Own Worst Enemies? May 27 p 66

Material Technology Corp.:

Coated Inserts: Confusing the Users, by K. W. Bennett, June 24 p 41

Materials

Metals Pick Up Speed in Materials Race, by I. G. Black, Apr 29 p 37

Materials Handling

Ford to Diaper 60 Precocious Mikes, by D. N. Williams, June 3 p 49
Good Plant Design Cuts Human Errors, by J. J. Obrzut, Apr 22 p 78
Iron Mike Works on Monday, by D. N. Williams, Mar 4 p 43
Scottish Crane Invades U. S. Industry, Jan 21 p 46
Tool Builder Automates Expansion, by B. D. Wakefield, Mar 18 p 82

Maytag Co.:

Appliance Men Plug in to Happy Times, by K. W. Bennett, June 3 p 48

Margaret Mead

Learning to Dig the Young Managers, Feb 18 p 27

Meetings and Conventions

AIME Fashions the Renaissance Man, by James Beizer, Mar 11 p 44
The Design Show: Expendable Items Flow, Apr 29 p 25
The 52nd Welding Meeting Converges on West Coast, Apr 15 p 68
1971 Meetings and Conventions, Jan 7 p 130
'72 Tool Show: World Competition in Old Event, by R. A. Wilson, Apr 8 p 45
Philadelphia to Host Metalworking Exposition, Apr 8 p 66
Watch What You Do at Trade Group Meetings, Jan 28 p 25

Meetings and Exhibits—Dates, Locations and Sponsors for Up-coming Conferences, Meetings and Shows

Melting

Computer Scales Up Melt Shop Skills, by R. A. Wilson, May 6 p 57

Mercedes-Benz of North America, Inc.:

Auto Rules: A Blessing in Disguise? by D. N. Williams and James Beizer, Mar 25 p 39

Mergers

Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46
Rift Grows Over Antitrust Policies, by G. J. McManus, Apr 29 p 35

Metallurgy

Farm Tool Maker Turns Hardcoater, by B. D. Wakefield, Jan 28 p 54
Heat Treating Process Checks Pollution, by B. D. Wakefield, Apr 22 p 80
Mechanical Plating Curbs Rust, Embrittlement, Feb 11 p 81
Metallurgists Take a Close Look at a New Gas, by R. R. Irving, Apr 15 p 65
Metallurgy Sharpens its Vision, by T. H. Malim, June 10 p 79
New Methods Aim at Deposition, by T. H. Malim, May 20 p 61
New Process Cuts Roll Delivery Time, by B. D. Wakefield, June 3 p 62
PM Tool Steels Come Out Swinging, by J. J. Obrzut, Jan 14 p 51
Sputtering: A New Way to Coat, by T. H. Malim, Apr 1 p 56
Transition Joints Go to Sea, Feb 4 p 56
What Rare Earths Add to Steel, by A. M. Greene, Feb 25 p 62

Metalworking Industry

And Now—Back to Try Again—Import Curb Bill, by K. A. Kaufman, Feb 4 p 17
Annual Statistical Review Metal Prices and Production as of January 7, 1971, Jan 7 p 109
Cost-Price Shootout at Market Corral? by G. J. McManus, June 17 p 42
Directory of Trade Associations, Jan 7 p 119
Finns Chart Record Metalworking Exports, Mar 4 p 25
How Bad Were Profits? Don't Ask, by J. D. Baxter, June 3 p 50
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51
Metalworking's Freight Crisis Gets Up Steam, by G. J. McManus, Feb 4 p 42
'70s Look Good for Industry, But Not '71, by K. A. Kaufman, Apr 1 p 41
'71 Looks Good On Paper, by Gene Beaudet, Jan 7 p 73
Philadelphia to Host Big Metalworking Exposition, Apr 8 p 66

Recovery Sneaks in the Back Door, by K. W. Bennett, Apr 1 p 39
Service Centers are Pulling Out All the Stops for Sales Success, by K. W. Bennett, May 6 p 45
Technology 'As You Like It', by W. G. Patton, May 27 p 80
Trading with the Russians or Red Chinese: Who's the Best Bet? by K. A. Kaufman, June 17 p 40
Wait 'Till Next Year . . . And Next . . . And? by Gene Beaudet, Feb 18 p 5

Metalworking Labor—Weekly Report of Industrial Relations, Wages Union Activities

Metalworking Newsfront—Capsule Digests of News Items Covering Steel, Nonferrous Metals and Related Industries

Metem Corp.:
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51

Michigan State University
Job Climate for Grads: Bleak and Cold, Jan 21 p 22

Micromatic Industries Corp.:
UAW Demands Threaten XLO Unit, Apr 15 p 19

Midland-Ross Corp.:
"Flip Tops" Keep Soaking Pits Hot, Apr 29 p 56
Incinerators Fire Up in Cold Economy, by K. W. Bennett, June 10 p 72
Japanese Attack Coke Problem, by N. B. Schwartz, Feb 18 p 58
Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53
Will Abundant Scrap Cool DR's Charm? by G. J. McManus, Apr 15 p 47

Midrex Div.:
Japanese Attack Coke Problem, by N. B. Schwartz, Feb 18 p 58

Midwestern Computer Controls, Inc.:
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53

Lucas Milhaupt, Inc.:
Brazing Performs Mix Alloy and Glass, Feb 4 p 23

Milwaukee Solvay Co.:
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44

Minerals
Australia Wants a Piece of Its Aetion, by James Beizer, Feb 11 p 65
Deepsea Nodules Yield Minerals, by B. D. Wakefield, May 13 p 74
Mining Auld Sod? Luck of the Irish Will Help, by James Beizer, Apr 8 p 79

Mining Industry
AIME Fashions the Renaissance Man, by James Beizer, Mar 11 p 44
Australia Wants a Piece of Its Action, by James Beizer, Feb 11 p 65
Coalmen Try to Turn Brown Desert Green, by K. W. Bennett, Jan 8 p 41
Deepsea Nodules Yield Minerals, by B. D. Wakefield, May 13 p 74
The Energy Pinch Releases Its Grip, by G. J. McManus, May 27 p 63
Mining Auld Sod? Luck of the Irish Will Help, by James Beizer, Apr 8 p 79
Mining Industry Doesn't Need Anymore 'Friends', by James Beizer, Jan 21 p 53

Minster Machine Co.:
Press Builders: Long on Optimism, Short on Orders, by K. W. Bennett, Jan 21 p 34

Mite Corp.:
Parts Grow in Plating Tanks, by T. H. Malim, Jan 21 p 42

Mitsubishi Heavy Industries, Ltd.:
Why Not Combine Melting, Fabrication, by R. R. Irving, Mar 11 p 53

Mobil Oil Corp.:
Lubricants Work Hot and Cold, Mar 4 p 58

Molding, Molds
Injection Molding Shoots for Size, by B. D. Wakefield, Apr 22 p 75
Molding Machine Trims Time and Cost, May 6 p 55
Technology 'As You Like It', by W. G. Patton, May 27 p 80

Moldings
Forging Has an Appetite for Plastic, by B. D. Wakefield, Mar 18 p 81
New Machine Molds Thermosets Faster, by J. J. Obrzut, Feb 25 p 61

Molybdenum Corp. of America
What Rare Earths Add to Steel, by A. M. Greene, Feb 25 p 62

Monarch Machine Tool Co.:
The New Profit Power in NC Lathes, by J. E. Sandford, June 17 p 51

Morgan Construction Co.:
Rolling Mill Builder Makes it Metric, by T. H. Malim, May 13 p 59
What Good are the Shakes? by T. H. Malim, Jan 14 p 56

Morgan Guaranty Trust Co.:
Was that Big Gain in GNP for Real? by J. D. Baxter, May 6 p 39

Morley Bros.:
Finding Ways to Light Their Fire, by D. N. Williams, June 3 p 53

Motor and Equipment Mfg. Assn.:
Recession Eats Auto Parts' Dust, by K. W. Bennett, Mar 18 p 64

N

NCCS-WORD, Inc.:
NC Software's New Combo—NCCS Plus WORD, by J. E. Sandford, Jan 28 p 38

National Assn. of Manufacturers
It's Decade of Growth—or Else, by J. D. Baxter, June 17 p 48
Occupational Skepticism & Harrasment Act of 1970? by C. J. Suchocki, June 17 p 44

National Assn. of Purchasing Managers
NAPM Votes 9 to 1 for Steelworkers' Walkout, May 27 p 19

National Assn. of Secondary Materials Institute
Can Economists Tell Copper's Fortune? by James Beizer, May 6 p 41
Does Every Price Cloud Have a Silver Lining? by James Beizer, May 6 p 75

National Automatic Tool Co.:
Injection Molding Shoots for Size, by B. D. Wakefield, Apr 22 p 75

National Bureau of Standards
Can You Afford Not to Know What's Coming? Feb 4 p 23
Finding the Right Man—and His Staff, Feb 4 p 23

National Can Co.:
Copper Talks: C-O-L Glows Green, by J. M. Brimberg, Mar 4 p 48
Labor: A Hands-Off Policy that Slaps, by G. J. McManus, June 10 p 70
Selective Strikes, Canners Crowd Steelworkers, Feb 25 p 19
USWA Strikes Canmakers After National Settles, by K. A. Kaufman, Feb 18 p 43

National Cash Register Co.:
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51
Quality Control Men: Our Own Worst Enemies? May 27 p 66

National Constructors Assn.:
Aluminum, Building: Pass the Catch Up, by G. J. McManus, Mar 25 p 42

National Distillers & Chemical Corp.:
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53

National Electrical Manufacturers Assn.:
Watch What You Do at Trade Group Meetings, Jan 28 p 25

National Homes, Inc.:
Modular Homes: Now is the Hour? by K. W. Bennett, Feb 18 p 39

National Industrial Conference Board
Barriers to Making Jobs Interesting, May 6 p 25
Four-Day Workweek: Organizational Malpractice? May 6 p 25
Is this an Attack on the Bottom Line? Apr 8 p 23
Look for Sophisticated Protests, Apr 29 p 24
New Ventures Get Critical Eye, June 24 p 27
Search for Business Soul in Nation's Ghettos, June 3 p 25

National Labor Relations Board
NLRB Blocks Move to Bar Strike Insurance, Jan 7 p 19
Nixon's NLRB: Like Father, Like Son? by K. A. Kaufman and C. J. Suchocki, Mar 4 p 50

National Machine Tool Builders Assn.:
New Lathes Fill Profit Gap, by R. A. Wilson, Feb 25 p 44
'72 Tool Show: World Competition in Old Event, by R. A. Wilson, Apr 8 p 45
Press Builders: Long on Optimism, Short on Orders, by K. W. Bennett, Jan 21 p 34
Safety Act: Unsafe at Any Reading, by R. A. Wilson, June 10 p 67
Sure, Machine Tool Sales Will Get Better—But When? by R. A. Wilson, Jan 7 p 76
To Russia with Profit—U. S. Tools, by D. N. Williams, June 17 p 39
Tool Builders Hope Depreciation Will Boost Sales; Orders Inch Up, Apr 29 p 13
Toolmen Cry 'Investment Credit Now', by R. A. Wilson, Apr 15 p 45
U. S. Machine Builders Push Soviet Sales, May 13 p 25
Wherefore Art Thou, Machine Tool Buyers? May 27 p 13

National Safety Council
Is School Bus Safety Just Another Detour? by D. N. Williams, May 6 p 23

National Society of Professional Engineers
Engineers Map Course for Federal Job Fund, Apr 22 p 19

National Steel Corp.:
Critics Question Certain Aspects, Jan 21 p 44
Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46
Rift Grows Over Antitrust Policies, by G. J. McManus, Apr 29 p 35

National Steel Service Center Inc.:
Service Centers are Pulling Out All the Stops for Sales Success, by K. W. Bennett, May 6 p 45

National Tool, Die and Precision Machining Assn.:
Keeping Commercial Hands Off Defense Tooling, by K. A. Kaufman, Apr 15 p 21
Rickover Joins Tool-Die Makers in Equipment Fight, by K. A. Kaufman, May 13 p 21

Natural Gas
Are LNG Pipeline Practical? Mar 11 p 60
Coal Gas Plants Begin Pilot Pipe Flows, by I. G. Black, Jan 14 p 46
Wanted: Tankers to Haul LNG, by R. R. Irving, Mar 25 p 53
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 64

Nestle Co., Inc.:
Cost Cutting is Out; Cost Control is In, by J. D. Baxter, Feb 25 p 46

New Britain Machine Co.:
Industry Depreciates Nader Challenge, June 3 p 47

New England
Nor' Easters May Weather Industrial Squalls, by T. H. Malim, June 24 p 48

New Equipment—Weekly Array of Latest Models and Accessories

Newport News Shipbuilding & Dry Dock Co.:
Wanted: Tankers to Haul LNG, by R. R. Irving, Mar 25 p 53

Niagara Machine and Tool Works
Power Press S.O.S.: Safe or Sorry, by R. A. Wilson, June 17 p 45

Nickel
Nonferrous: Nickel Booms, the Rest Bust in '70, by James Beizer, Apr 22 p 67
U. S. Drops Import Barriers for French Nickel, by K. A. Kaufman, Jan 28 p 20

Nippon Kokan
Controlled Al-Killing Degassing of Steel, May 20 p 27
Japanese Attack Coke Problem, by N. B. Schwartz, Feb 18 p 58

Nippon Steel Corp.:
Japanese Attack Coke Problem, by N. B. Schwartz, Feb 18 p 58

Noise
Noise Control Begins at the Source, by D. N. Williams, Feb 11 p 60
Reducing the Racket at the Horse's Mouth, Feb 11 p 60

Nondestructive Testing
Metallurgy Sharpens its Vision, by T. H. Malim, June 10 p 79

Nonferrous Industry
Can Economists Tell Copper's Fortune? by James Beizer, May 6 p 41
Chile: Sometimes it Pays to Scream-a Little, Feb 18 p 25
"Complaining About the Mean Old Copper Barons", by James Beizer, May 13 p 93
Copper Companies: One for All and All for One? by James Beizer, Apr 1 p 85
Copper Talks: C-O-L Glows Green, by J. M. Brimberg, Mar 4 p 48
Copper Talks: Wake Me When It's Over, by James Beizer, June 24 p 39
Copper Users Play a Waiting Game, by James Beizer, Feb 4 p 69
Dual Drives at Top Makes Merger Work, by J. D. Baxter, Jan 28 p 43
How Much is Too Much for Clean Air? by James Beizer, Apr 29 p 64
It's the Bottom of the First, With No Relief in Sight, by James Beizer, Mar 4 p 81
Long Copper Strike Not Likely in 1971, by James Beizer, Jan 28 p 42
1970: Year for Extraordinary Charges, by James Beizer, Feb 18 p 45
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53
Nonferrous: Nickel Booms, the Rest Bust in '70, by James Beizer, Apr 22 p 67

Nonferrous Markets—Weekly Reports Including Prices (See Also James Beizer)

Nonferrous Metals
Chile's Money Roll Blues Fall on Tin Ears, by James Beizer, Mar 4 p 45
Does Every Price Cloud Have a Silver Lining? by James Beizer, May 6 p 75
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53
Nonferrous: Nickel Booms, the Rest Bust in '70, by James Beizer, Apr 22 p 67
Phosphor Bronze: Cast into Slabs, by T. H. Malim, May 6 p 56
Raising Prices Doesn't Mean You'll Get It, by James Beizer, June 10 p 131
Yeah, But How Much Does it Cost? by James Beizer, Jan 21 p 31

North American Rockwell Corp.:
NAR: "We Can Do it for You Wholesale", by D. N. Williams, June 24 p 23

Northgate Exploration Ltd.:
Mining Auld Sod? Luck of the Irish Will Help, by James Beizer, Apr 8 p 79

Northwestern University
Business Shuns Role as Society's Superman, Feb 11 p 27
Don't Gain Skill in Worrying, Think Solutions, Apr 29 p 24

Norton Co.:
Abrasives Give Metal Cutting New Zip, by R. A. Wilson, Mar 4 p 55
Grinding Away at Steel Defects, by T. H. Malim, June 3 p 60
Grinding Jobs Multiply for Coated Abrasives, by B. D. Wakefield, Mar 18 p 79
Low Cost, Low Pollution Plating, June 10 p 29

Nozzles
Gas-Sleeve Nozzle Casts Killed Steel, Apr 22 p 26

Nuclear Corp. of America
"Jumping Mill" Keeps Plant Hopping, by J. J. Obrzut, Jan 21 p 45

Nuclear Power
'Atomic Tool' Speeds Cutting Tests, May 6 p 53

Numerical Control
Card NC Tries Comeback with Swedish Managers, by K. W. Bennett, May 20 p 47
Computer's Kid Brother Comes of Age, by D. N. Williams, Feb 18 p 41
Cutting with an NC-Driven Spark, May 6 p 27
Inspection Cuts NC Downtime, by R. A. Wilson, Mar 11 p 56
Japanese Tool Makers Chart Market Course, Mar 18 p 24
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51
Laser Metrology Sharpens its Costs, by J. E. Sandford, Apr 8 p 57
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53
NC Software's New Combo—NCCS Plus WORD, by J. E. Sandford, Jan 28 p 38
New Lathes Fill Profit Gap, by R. A. Wilson, Feb 25 p 44
The New Profit Power in NC Lathes, by J. E. Sandford, June 17 p 51
Put Override on Computer's Role, by R. A. Wilson, June 10 p 75
Quality Control Says 'Go or No-Go', May 20 p 59
Service Centers Thrive on Tapes, by T. H. Malim, Mar 25 p 58
Some Machine Builders Expand Despite Slump, by K. W. Bennett, June 17 p 43
Sure, Machine Tool Sales Will Get Better—But When? by R. A. Wilson, Jan 7 p 76
Tube Bending Technology Shapes a Firm Future, by B. D. Wakefield, Apr 1 p 54

O

Ocean Resources, Inc.:
Deepsea Nodules Yield Minerals, by B. D. Wakefield, May 13 p 74

Office and Professional Employees Union
White-Collar Drive Rates Only Fair in '70, Apr 29 p 19

Ohio Mobile Home and Recreational Vehicles Assn.:
Will Fun Get Consumer Buying Going? by K. W. Bennett and R. A. Wilson, Jan 14 p 41

Kurt Orban Co.:
Foreign Cutthroats May Shut Mills, by G. J. McManus, May 20 p 49
Stainless War Rages Despite Discount, by K. W. Bennett, May 20 p 48

Organization of American States
Nationalism: Latin America's Big Schtik, by I. G. Black, Apr 15 p 42

Ormet Corp.:
Steel Labor: Can Talks Aren't the Only Show, Feb 18 p 19

Outboard Marine Corp.:
When Will the Wankel Make It? by D. N. Williams, Feb 25 p 57
Will Fun Get Consumer Buying Going? by K. W. Bennett and R. A. Wilson, Jan 14 p 41

Overmeyer Co., Inc.:
Shake Up Transportation Managing, Apr 15 p 27

Owatonna Tool Co.:
Card NC Tries Comeback with Swedish Managers, by K. W. Bennett, May 20 p 47

P

PPG Industries, Inc.:
Curtain Wall: More than Skin Deep, by A. M. Greene, May 27 p 77

Park-Ohio Industries, Inc.:
Tocco Sells 25 Valve Seat Hardeners to Cope with Low Lead, June 3 p 11

Particulates
New Head Zips Chips from Work Area, Apr 1 p 58

E. O. Paton Welding Institute
Cr-Ni-Mo-V Alloy for Pressure Vessels, June 24 p 28

Patton Consultants
Consultant Lets Managers Have It, Apr 1 p 27

Peabody Coal Co.:
Coalmen Try to Turn Brown Desert Green, by K. W. Bennett, Jan 28 p 41

Pennsylvania State University
Does it Make a Difference if You Dislike Him? Apr 15 p 27

Pennwalt Corp.:
Curtain Wall: More than Skin Deep, by A. M. Greene, May 27 p 77
Molding Machine Trims Time and Cost, May 6 p 55
New Machine Molds Thermosets Faster, by J. J. Obrzut, Feb 25 p 61

Perkin-Elmer Corp.:
The Laser Aids in Shipfitting, May 27 p 84
Laser Metrology Sharpens its Costs, by J. E. Sandford, Apr 8 p 57
The Sensuous Meter by 'C' by R. A. Wilson, Mar 11 p 41

Peru
Peru Orders U. S. Companies, 'Pay Up or Get Out', by James Beizer, Jan 14 p 67

Petroleum Industry
Alaska Oil Pipeline: Would Rails be Better? June 10 p 25
Coal Gas Plants Begin Pilot Pipe Flows, by I. G. Black, Jan 14 p 46
The Materials Side of Leaded Fuel Battle, Jan 7 p 28

Phelps Dodge Corp.:
Copper: What Happens When Monetary Values Change, May 20 p 46
U. S. Copper Price Yo-Yos Up 2¢, by James Beizer, Apr 1 p 45
Yeah, But How Much Does it Cost? by James Beizer, Jan 21 p 31

Philco-Ford Corp.:
Appliance Men Plug in to Happy Times, by K. W. Bennett, June 3 p 48
Composites: Putting Them All Together, May 13 p 29

Pig Iron
Process Control Boosts Blast Furnace Output, Jan 14 p 58

Pipelines
Alaska Oil Pipeline: Would Rails be Better? June 10 p 25
Are LNG Pipelines Practical? Mar 11 p 60
Coal Gas Plants Begin Pilot Pipe Flows, by I. G. Black, Jan 14 p 46
Keeping that Arctic Pipeline from Freezing Up, Mar 11 p 28

Planning Executives' Institute
Who Will Do It is Planning's Big Problem, by K. W. Bennett, June 17 p 41

Planprint Co.:
Plant Plans: Men, Money, Machines First, Then Build, by S. E. Lehman, June 10 p 73

Plant Engineering
Good Plant Design Cuts Human Errors, by J. J. Obrzut, Apr 22 p 78
Plant Plans: Men, Money, Machines First, Then Build, by S. E. Lehman, June 10 p 73

Plasma Arcs
When Will the Plasma Arc Make the Melting Scene? Feb 18 p 28

Plasma Technology
Plasma Moves Into Hot Machining, June 3 p 64

Plastics
Forging Has an Appetite for Plastic, by B. D. Wakefield, Mar 18 p 81
Here's Another Tough Plastic, June 10 p 86
Injection Molding Shoots for Size, by B. D. Wakefield, Apr 22 p 75
Lexan 500 Makes Waves, Jan 21 p 23
Plastics Display Tough New Image, by H. R. Clauser, Feb 11 p 77
Reinforced Plastics Fall Forward, Mar 11 p 58
Technology 'As You Like It', by W. G. Patton, May 27 p 80
What are the Automakers Doing to Stem the Corrosion Tide? by W. G. Patton, Apr 29 p 52

Plating
Mechanical Plating Curbs Rust, Embrittlement, Feb 11 p 81
Sputtering: A New Way to Coat, by T. H. Malim, Apr 1 p 56

Pleassey Airborne, Inc.:
What's Bugging Manufacturing Managers, by P. J. Cathey, Mar 25 p 44

Polaris International Metals Corp.:
Direct Steelmaking in Hearth Proposed, by G. J. McManus, Jan 21 p 44

Pollution, Air
AISI Cops a Plea and a Denial, May 27 p 69
Autos: Can Good Faith Beat Bad Air? by D. N. Williams, May 13 p 55
Clean-Up Cause Clanks Ever Onward, by K. W. Bennett, Jan 7 p 75
Coming Soon—the "Cleanmobile 8", by D. N. Williams, June 10 p 23
Copper's Song of Sulphur: A Pocketful of Wry, by James Beizer, June 24 p 75

Exhaust Rules: Are the Trade-offs Worth It? by D. N. Williams, May 20 p 23
Fight Pollution Now EPA Chief Charges, Jan 21 p 19
GM Unveils Laundry List for '75 Engines, by D. N. Williams, June 17 p 23
High Court Shoves Pollution Lawsuits Back on States, by K. A. Kaufman, Apr 1 p 21
How Much is Too Much for Clean Air? by James Beizer, Apr 29 p 64
If Not Ahead, Look Back, Mr. McLaren, by Gene Beaudet, Apr 15 p 5
Incinerators - Fire Up in Cold Economy, by K. W. Bennett, June 10 p 72
Is this an Attack on the Bottom Line? Apr 8 p 23
Maintenance: Hot Pants Over In-Plant Smoke, by R. A. Wilson, Apr 1 p 44
The Materials Side of Leaded Fuel Battle, Jan 7 p 28
Nixon Dons Mr. Clean Uniform in Ecology War, by K. A. Kaufman, Feb 18 p 42
Pay-As-You-Pollute Plan: No Limits—Just Cash, by D. N. Williams, Jan 14 p 45
Pollution Control Begins Inside the Plant, by J. J. Obrzut, Jan 28 p 48
Pollution Control May Hamstring Economy, Fed Says, by K. A. Kaufman, June 17 p 21
Pollution Control Write-Off: Stamp of Approval, by K. A. Kaufman, May 27 p 19
Pollution-Free Rapid Transit, Mar 25 p 26
Pollution Rules Could Choke Industry—to Death, by K. A. Kaufman, Feb 11 p 21
Pollution: Welding's Pot-of-Gold, by N. B. Schwartz, Apr 15 p 62
Spring Recall Season Blooms, by D. N. Williams, Apr 8 p 21
A Word for 'Generous Monster', by D. N. Williams, Mar 18 p 22

Pollution, Water

Administration Dredges Up 1899 Pollution Law, by K. A. Kaufman, Jan 7 p 21
Clean-Up Cause Clanks Ever Onward, by K. W. Bennett, Jan 7 p 75
Fight Pollution Now EPA Chief Charges, Jan 21 p 19
GM to Halt Discharge of Waste into Hudson, Jan 21 p 19
Getting the Most Out of Pollution, by T. H. Malim, Feb 11 p 80
High Court Shoves Pollution Lawsuits Back on States, by K. A. Kaufman, Apr 1 p 21
If Not Ahead, Look Back, Mr. McLaren, by Gene Beaudet, Apr 15 p 5
Is this an Attack on the Bottom Line? Apr 8 p 23
Nixon-Muskie Seek Crackdown on Water Pollution, Mar 25 p 11
Pay-As-You Pollute Plan: No Limits-Just Cash, by D. N. Williams, Jan 14 p 45
Pollution Control Write-Off: Stamp of Approval, by K. A. Kaufman, May 27 p 19

Polytechnic Institute of Brooklyn

Keeping the Arctic Pipeline from Freezing Up, Mar 11 p 28

Portage Double Quick, Inc.:

Inspection Cuts NC Downtime, by R. A. Wilson, Mar 11 p 56

H. K. Porter Co., Inc:

Rift Grows Over Antitrust Policies, by G. J. McManus, Apr 29 p 35

Powdered Metals

Aluminum Powder Passes Exfoliation Test, June 17 p 27
Brazing Performs Mix Alloy and Glass, Feb 4 p 23
New Head Zips Chips from Work Area, Apr 1 p 58
PM Tool Steels Come Out Swinging, by J. J. Obrzut, Jan 14 p 51
Production Welding of PM Parts Comes of Age, by B. D. Wakefield, Jan 21 p 39
Why Not Combine Melting, Fabrication, by R. R. Irving, Mar 11 p 53

Pratt & Whitney Machine Tool Div.:

The New Profit Power in NC Lathes, by J. E. Sandford, June 17 p 51
Toolmen Cry 'Investment Credit Now', by R. A. Wilson, Apr 15 p 45

Presses

Power Press S.O.S.: Safe or Sorry, by R. A. Wilson, June 17 p 45
Press Builders: Long on Optimism, Short on Orders, by K. W. Bennett, Jan 21 p 34
Transfer System Steps Up Press Tempo, by J. J. Obrzut, Mar 4 p 62

Pressure-Pac Co.:

Grinding Jobs Multiply for Coated Abrasives, by B. D. Wakefield, Mar 18 p 79

Pressure Vessels

Cr-Ni-Mo-V Alloy for Pressure Vessels, June 24 p 28

Prices—Steel Industry's Most Up-to-Date Weekly Tabulation of Prices for All Forms of Steel from Scrap to Strip

Prices

Amax Hikes Zinc Price (Despite Soggy Market), by James Beizer, Mar 25 p 45
Annual Statistical Review Metal Prices and Production as of January 7, 1971, Jan 7 p 109
Cort Sizes Up Wage-Price Climate, by G. J. McManus, Apr 8 p 50
Cost-Price Shootout at Market Corral? by G. J. McManus, June 17 p 42
Does Every Price Cloud Have a Silver Lining? by James Beizer, May 6 p 75
Does Supply-Demand Still Decide Prices? by G. J. McManus, Apr 1 p 42
Everybody's Right . . . But How Right? by Gene Beaudet, Jan 28 p 5
Everyone Gets His Price in Aluminum Accord, by James Beizer, June 3 p 51
Foreign Steel for Hedging? Users Can't Count on It, by G. J. McManus, Jan 14 p 47
Incomes Policy Coming? USWA Talks Will Decide, by G. J. McManus, Jan 21 p 35
Mills Start to Wait Out Prices, May 6 p 76
1970 Aluminum Shipments Seesaw Down 7 Pct, by James Beizer, Jan 7 p 167
Nixon Says USS's Boost is Just Small Enough, by G. J. McManus and K. A. Kaufman, Jan 21 p 32
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53
Nonferrous: Nickel Booms, the Rest Bust in '70, by James Beizer, Apr 22 p 67
Onward or Upward? Zinc's Got the Pricing Blues, by James Beizer, June 17 p 83
A Price Cut by Any other Name is Still the Same, by K. W. Bennett, Mar 11 p 42
Prices Dip as Mills Nibble at Market, June 3 p 76
Prices Hold Up Although Market is Softening, June 17 p 84
Rail, Labor and Coke Costs Pressure Up Casting Prices, by K. W. Bennett, Apr 8 p 44
Raising Prices Doesn't Mean You'll Get It, by James Beizer, June 10 p 131
"Rome is Burning," Say Steelmen, by G. J. McManus, Jan 28 p 40
Scrap Prices Take a Plunge—Off the Deep End, Mar 4 p 82
Stainless War Rages Despite Discount, by K. W. Bennett, May 20 p 48
Steel Profits: A Long Tale of Woe, by G. J. McManus, Feb 4 p 41
Steel Study Rides a Painted Pony, by G. J. McManus, Mar 11 p 43
Steel Summary: Have Steel Men Lost Stainless Grip? May 20 p 89
Steel Summary: Mini-Price War in Midst of Boom, Mar 4 p 79
Steel Summary: Price Hedging Makes June Peak, May 27 p 113
Two Can Play the Price Game, Jan 14 p 47
U. S. Copper Price Yo-Yos Up 2¢, by James Beizer, Apr 1 p 45
U. S. Producers' and LME Prices Match at 50¢ a Lb, by James Beizer, Mar 18 p 113
Wage-Price Paradox Puzzles Steelmen, by G. J. McManus, June 24 p 44
Will Abundant Scrap Cool DR's Charm? by G. J. McManus, Apr 15 p 47
Yeah, But How Much Does it Cost? by James Beizer, Jan 21 p 31
Zinc Price Cuts Set Off Industry-Wide Squabbling, by James Beizer, Jan 14 p 43
Zinc Stock Improvement: A Step Up for Prices, by James Beizer, May 20 p 91

Production

About "The Best Kept Secret", by Gene Beaudet, Jan 7 p 5
Annual Statistical Review Metal Prices and Production as of January 7, 1971, Jan 7 p 109
The Best Kept Secret of Our Times, by G. J. McManus, Jan 7 p 85
Computer Eases Job Scheduling, by J. E. Sandford, Feb 18 p 46
Cost Cutting is Out; Cost Control is In, by J. D. Baxter, Feb 25 p 46
Cutting Costs? Try Going to Workers, They'll Help, by P. J. Cathey, Apr 29 p 38
Don't Let Low Plant Rates Scare You, by J. D. Baxter, Mar 11 p 47
Is This Why U. S. Productivity Went Sour? Mar 4 p 27
It Takes More than a Sharp Pencil, by K. W. Bennett, Mar 25 p 47
Lordstown Plant: GM's New Mark of Excellence? by D. N. Williams, Mar 11 p 39
Now They'll Guarantee Your Finishing Costs, by S. H. Hockenberry, May 20 p 50
Productivity Lag? Try These Ideas, by J. D. Baxter, May 13 p 63
Steel's Worst Product—Productivity, by G. J. McManus, Feb 25 p 49
Wanted : Manufacturing and Money Managers, Apr 22 p 25
We're Number One! Oh, Really, by Gene Beaudet, Apr 22 p 5
What's Bugging Manufacturing Managers, by P. J. Cathey, Mar 25 p 44

Production Engineers Research Assn.:

Plasma Moves Into Hot Machining, June 3 p 64

Psychology

Does it Make a Difference if You Dislike Him? Apr 15 p 27
Handle Marginal Employee the Way He Should be Handled, by D. N. Williams, Feb 4 p 46
How to Keep from Blowing Your Cool, May 13 p 27
Tune In, Turn On, Stay on the Beam, May 13 p 27

Public Relations

The Tyranny of Campaign GM, by Gene Beaudet, May 27 p 5

Puerto Rico

Copper and Religion Don't Mix in Puerto Rico, by James Beizer, Feb 18 p 73

Purchasing

Reciprocity Attack Swings from Steel to Aluminum, by K. A. Kaufman, June 3 p 21

Purdue University

Coated Inserts: Confusing the Users, by K. W. Bennett, June 24 p 41

Q

Quality Control

Good Plant Design Cuts Human Errors, by J. J. Obrzut, Apr 22 p 78
Is Zero Defects Still Alive and Well? by P. J. Cathey, Feb 25 p 50
Lordstown Plant: GM's New Mark of Excellence? by D. N. Williams, Mar 11 p 39
Managers: Reliability's Most Needed Customers, by I. G. Black, Feb 4 p 45
Promote QC to Executive Status, by K. W. Bennett, May 27 p 66
Quality Control Men: Our Own Worst Enemies? May 27 p 66
Quality Control Says 'Go or No-Go', May 20 p 59
The Sensuous Meter by 'C', by R. A. Wilson, Mar 11 p 41

Quanta Welding Co.:

Diffusion Bonding Makes Split-Second Joints, by R. R. Irving, Jan 28 p 51

R

Racing Cars

Safety: It Starts at the Track, by N. B. Schwartz and Stan Stephenson, May 13 p 69

Radiators, Automobile

Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51

Railroads

DOL Head Beats Drum for Rail Law Reform, June 10 p 19
Metalworking's Freight Crisis Gets Up Steam, by G. J. McManus, Feb 4 p 42
Nixon Asks Power to Avert Rail Strike, Feb 18 p 19
Path Cleared for Selective Rail Strikes, Apr 8 p 17
Rail Talks: Somehow the Trains Will Roll, Mar 4 p 19
Signalmen Shrug Off Fat Wage Offer, Apr 22 p 19
Signalmen Stage Costly Rerun, by D. N. Williams, May 27 p 65

Ramsay Welding Research, Inc.:

Abrasive Cut-Off Has New Angles, by T. H. Malim, Jan 28 p 52

Rath and Strong Co.:

Promote QC to Executive Status, by K. W. Bennett, May 27 p 66

Raytheon Co.:

Abrasive Cut-Off Has New Angles, by T. H. Malim, Jan 28 p 52

Recreational Vehicles

Will Fun Get Consumer Buying Going? by K. W. Bennett and R. A. Wilson, Jan 14 p 41

Recruitment

College Recruiting—Where the Gaps Are, May 27 p 27
Job Climate for Grads: Bleak and Cold, Jan 21 p 22
Job Offers to Grads Show Who's

Hurting Most, June 24 p 27
Job Outlook for Grads Brightens a Bit, Feb 18 p 27

Reliance Electric Co.:
Computer's Kid Brother Comes of Age, by D. N. Williams, Feb 18 p 41

Renault, Inc.:
Auto Rules: A Blessing in Disguise? by D. N. Williams and James Beizer, Mar 25 p 39

Republic Carbon Products Co., Inc.:
New Coke Fuel Developed, June 3 p 27

Republic Steel Corp.:
Grinding Away at Steel Defects, by T. H. Malim, June 3 p 60
Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46
New Process Cuts Roll Delivery Time, by B. D. Wakefield, June 3 p 62
Rift Grows Over Antitrust Policies, by G. J. McManus, Apr 29 p 35
Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53
Steel Mills Loosen Purse Strings a Little, by G. J. McManus, Apr 29 p 35

Reynolds Metals Co.:
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51
Metals Pick Up Speed in Building Materials Race, by I. G. Black, Apr 29 p 37
Will Fun Get Consumer Buying Going? by K. W. Bennett and R. A. Wilson, Jan 14 p 41

C. A. Roberts Co.:
Service Centers are Pulling All the Stops for Sales Success, by K. W. Bennett, May 6 p 45

H. H. Robertson Co.:
Tax Cut? Yes, But Don't Ask How, When or Why, by G. J. McManus, Apr 15 p 44

Rolling Mills
New Process Cuts Roll Delivery Time, by B. D. Wakefield, June 3 p 62
Rolling Mill Builder Makes it Metric, by T. H. Malim, May 13 p 59
Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53

Romania
Romania Rolls Out Welcome Mat for U. S., Feb 4 p 21

Roper Corp.:
Appliance Men Plug in to Happy Times, by K. W. Bennett, June 3 p 48

Rusco Industries
Metals Pick Up Speed in Building Materials Race, by I G. Black, Apr 29 p 37

Joseph T. Ryerson & Son, Inc.:
Service Centers are Pulling All the Stops for Sales Success, by K. W. Bennett, May 6 p 45

S

S & M Tool Co.:
New System Spins Heads on Fasteners, June 10 p 83

Safety
Air Bags: On the Way to Reality, by D. N. Williams, Mar 25 p 21
Auto Safety Cost-Push Topples Designers' Throne, by D. N. Williams, Mar 11 p 45
Coming Soon—the "Cleanmobile 8", by D. N. Williams, June 10 p 23
Ford Fingers Fickle Government Standards, by D. N. Williams, May 27 p 23
GM Tips Hand on Safety Systems, by D. N. Williams, Feb 4 p 19
Industrial Health: URW, Goodrich Begin Study, June 24 p 19
Is School Bus Safety Just Another Detour? by D. N. Williams, May 6 p 23
Maintenance: Hot Pants Over In-Plant Smoke, by R. A. Wilson, Apr 1 p 44
Occupational Skepticism & Harrasment Act of 1970? by C. J. Suchocki, June 17 p 44
Power Press S.O.S.: Safe or Sorry, by R. A. Wilson, June 17 p 45
Safety Act: Unsafe at Any Reading, by R. A. Wilson, June 10 p 67
Safety Bill: For Lawyers or Workers? by C. J. Suchocki, Apr 22 p 62
Safety Inspectors: Have Law, Won't Travel—Yet, by K. A. Kaufman, May 6 p 21
Safety: It Starts at the Track, by N. B. Schwartz and Stan Stephenson, May 13 p 69
Safety, Local Autonomy Fan Rank-and-File Revolt, by G. J. McManus, May 13 p 58
Safety Rules Spark Glimmer of Hope, by D. N. Williams, Mar 4 p 23
Will Chrysler Deflate the Air Bag? by D. N. Williams, Feb 11 p 23
A Word for 'Generous Monster', by D. N. Williams, Mar 18 p 22

Saginaw Steering Gear Div.:
Noise Control Begins at the Source, by D. N. Williams, Feb 11 p 60

St. Joseph Lead Co.:
Amax Hikes Zinc Price (Despite Soggy Market), by James Beizer, Mar 25 p 45
Nonferrous Metals: So What's Good? by James Beizer, May 13 p 53

St. Joseph Mineral Corp.:
Yeah, But How Much Does it Cost? by James Beizer, Jan 21 p 31
Zinc Price Cuts Set Off Industry-Wide Squabbling, by James Beizer, Jan 14 p 43
Zinc Stock Improvement: A Step Up for Prices, by James Beizer, May 20 p 91

Paul Samuelson
Recovery: A Case of Tired Blood? by G. J. McManus, June 3 p 45

Sandman Associates
Computer Eases Job Scheduling, by J. E. Sandford, Feb 18 p 46

Sandvik Steel, Inc.:
TiC Cutters Take it All Off, by R. A. Wilson, Mar 18 p 67

Sauder Machine Co.:
The New Profit in NC Lathes, by J. E. Sandford, June 17 p 51

Schlienger Engineering Co.:
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75

Scholz Homes
Modular Homes: Now is the Hour? by K. W. Bennett, Feb 18 p 39

Schott Industries, Inc.:
'Comprehensive' Sums Up Coil Coater, June 17 p 58

Sciaky Bros., Inc.:
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75
Production Welding of PM Parts Comes of Age, by B. D. Wakefield, Jan 21 p 39

Scovill Mfg. Co.:
Phosphor Bronze: Cast into Slabs, by T. H. Malim, May 6 p 56

Scrap—Ferrous Market and Prices, Weekly Tabulation

Scrap
Badly Depressed Market Takes a Tumble, Apr 8 p 81
Combination of Ingredients Holds Market Down, Mar 25 p 86
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75
Ferrous Scrap Market Sits on a Standoff, Feb 4 p 70
Ferrous Scrap Markets Talk of Weakness, Feb 25 p 74
ISIS Sees Spending Up, Export Demand Down, Jan 21 p 54
It Looks Like Long, Hot—and—Quiet-Summer, May 20 p 92
Market Continues to Talk a Good Game, Jan 28 p 66
Market Shows Life as Moment of Truth Nears, June 10 p 134
Mill Speeds Aluminum to a New Life, by J. J. Obrzut, Apr 22 p 81
Mills Control Weakening Scrap Market, Apr 15 p 86
Mills Start to Wait Out Prices, May 6 p 76
Nondescript Scrap Market Continues Waiting Game, Feb 11 p 112
Prices Dip as Mills Nibble at Market, June 3 p 76
Prices Hold Up Although Market is Softening, June 17 p 84
Scrap Market Begins to Gallop—Cautiously, Jan 7 p 168
Scrap Market Plods Along on Soggy Plateau, Feb 18 p 74
Scrap Market Takes a Mid-Month Breather, Jan 14 p 68
Scrap Prices Take a Plunge—Off the Deep End, Mar 4 p 82
Sellers Pin Hopes on Second Half Revival, May 13 p 94
Sluggish Market Continues to Tread Water, Mar 18 p 116
Soggy Scrap Market Doesn't Improve, June 24 p 76
Strength Ebbs Out of Quiet Market, Apr 29 p 67
Weak Ferrous Scrap Market Coasts on Plateau, Mar 11 p 76
Weak Market Drifts with Little Price Change, Apr 22 p 117
Weakening Scrap Market Loses Ground, Apr 1 p 87
Weight of New Lists Presses Market Down, May 27 p 116
Will Abundant Scrap Cool DR's Charm? by G. J. McManus, Apr 15 p 47

Seagrave Sales Corp.:
Curtain Wall: More than Skin Deep, by A. M. Greene, May 27 p 77

Sears, Roebuck & Co.:
Promote QC to Executive Status, by K. W. Bennett, May 27 p 66

T. Sendzimir, Inc.:
Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53

Service Centers
Service Centers are Pulling Out All the Stops for Sales Success, by K. W. Bennett, May 6 p 45
Stainless War Rages Despite Discount, by K. W. Bennett, May 20 p 48
Tooling 'Service Center' Stirs Machine Market, by K. W. Bennett, May 6 p 40

Sheehan Industries, Inc.:
Safety Act: Unsafe at Any Reading, by R. A. Wilson, June 10 p 67

Sheldon Machine Co., Inc.:
New Lathes Fill Profit Gap, by R. A. Wilson, Feb 25 p 44
The New Profit Power in NC Lathes, by J. E. Sandford, June 17 p 51

Sherwood Medical Industries, Inc.:
Getting the Most Out of Pollution, by T. H. Malim, Feb 11 p 80

Shipbuilding
British Shipbuilder Goes Down the Ways, June 24 p 25
Cancel the Burial at Sea; Shipbuilding Resuscitated, by R. A. Wilson, May 6 p 37
The Laser Aids in Shipfitting, May 27 p 84
Transition Joints Go to Sea, Feb 4 p 56
Wanted: Tankers to Haul LNG, by R. R. Irving, Mar 25 p 53
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59
What They Want from Candidate Materials, Mar 25 p 56

Sibley Machine and Foundry Corp.:
Computer Untangles Foundry Problems, by B. D. Wakefield, Mar 25 p 57

Sikorsky Aircraft Div.:
Into the Air With Weld Bonding, by T. H. Malim, Mar 4 p 60

Silver
Does Every Price Cloud Have a Silver Lining? by James Beizer, May 6 p 75
Slow Flow of Silver Socks it to Speculators, by James Beizer, May 27 p 115

Singer-General Precision, Inc.:
Managers: Reliability's Most Needed Customers, by I. G. Black, Feb 4 p 45

A. O. Smith-Inland, Inc.:
Production Welding of PM Parts Comes of Age, by B. D. Wakefield, Jan 21 p 39

Snap-On Tool Corp.:
Recession Eats Auto Parts' Dust, by K. W. Bennett, Mar 18 p 64

Snyder Corp.:
Computer's Kid Brother Comes of Age, by D. N. Williams, Feb 18 p 41

Society for Advancement of Management
Safety, Local Autonomy Fan Rank-and-File Revolt, by G. J. McManus, May 13 p 58

Society of Automotive Engineers
The Red Coats are Coming—Back! by D. N. Williams, Jan 21 p 20

Society of Manufacturing Engineers
Forging Joins its Competition, May 20 p 64
Philadelphia to Host Big Metalworking Exposition, Apr 8 p 66

Society of the Plastics Industry
Reinforced Plastics Fall Forward, Mar 11 p 58

Sociology
The Best Kept Secret of Our Times, by G. J. McManus, Jan 7 p 85

Business Shuns Role as Society's Superman, Feb 11 p 27
The Greening of Industrial America, by Gene Beaudet, Mar 11 p 5
Learning to Dig the Young Managers, Feb 18 p 27
Look for Sophisticated Protests, Apr 29 p 24
Search for Business Soul in Nation's Ghettos, June 3 p 25
Students Don't Buy Social Concern 'Snow Job', June 17 p 25
These are Not Just a Bunch of 'Joes', by Gene Beaudet, May 20 p 5

Sodium Chloride Institute
What are the Automakers Doing to Stem the Corrosion Tide? by W. G. Patton, Apr 29 p 52

South America
Nationalism: Latin America's Big Schtik, by I. G. Black, Apr 15 p 42

South Bend Lathe
New Lathes Fill Profit Gap, by R. A. Wilson, Feb 25 p 44

Southern Coil Coating Corp.:
'Comprehensive' Sums Up Coil Coater, June 17 p 58

Southern Peru Copper Co.:
Peru Orders U. S. Companies, 'Pay Up or Get Out', by James Beizer, Jan 14 p 67

Speed Queen Div.:
Appliance Men Plug in to Happy Times, by K. W. Bennett, June 3 p 48

Stainless Steel
The Emphasis on Building Skins, Mar 4 p 28
Parts Grow in Plating Tanks, by T. H. Malim, Jan 21 p 42
Pot-of-Gold in Stainless Future, Feb 25 p 28
Stainless War Rages Despite Discount, by K. W. Bennett, May 20 p 48
Steel Summary: Are More Dumping Charges Coming? Feb 18 p 71
Steel Summary: Have Steel Men Lost Stainless Grip? May 20 p 89

Standard Oil Co. of Indiana
Who Will Do It is Planning's Big Problem, by K. W. Bennett, June 17 p 41

Standards
Automakers' Parts Reduction Drive Gathers Steam, by D. N. Williams, June 3 p 23
Ford Fingers Fickle Government Standards, by D. N. Williams, May 27 p 23
Rolling Mill Builder Makes it Metric, by T. H. Malim, May 13 p 59
A Straight Line to Accuracy, June 17 p 57

Stanford Research Institute
Tool Builder Automates Expansion, by B. D. Wakefield, Mar 18 p 82

Stanford University
College Recruiting—Where the Gaps Are, May 27 p 27
Is this an Attack on the Bottom Line? Apr 8 p 23
Students Don't Buy Social Concern 'Snow Job', June 17 p 25
Students Tell All: What It's Like in Industry, May 27 p 27

Starcraft Co.:
Will Fun Get Consumer Buying Going? by K. W. Bennett and R. A. Wilson, Jan 14 p 41

States Engineering Co.:
Fast Sand Return Streamlines Foundry, Apr 22 p 82

Steam Engine Systems Corp.:
Steam Also Ran Despite Research, by D. N. Williams, Mar 11 p 23

Steel
Automen Eye Change to Steel Disc Brakes, by D. N. Williams, Jan 7 p 23
Curtain Wall: More than Skin Deep, by A. M. Greene, May 27 p 77
Don't Sell Steel Short, Gott Urges, by G. J. McManus, May 20 p 53
The Eyes of Texas are on U. S. Steel, Apr 29 p 49
Foreign Steel for Hedging? Users Can't Count on It, by G. J. McManus, Jan 14 p 47
Grinding Away at Steel Defects, by T. H. Malim, June 3 p 60
Japan-Canada Coal Talks Leave Kaiser Sweating, by Jack Miller, May 13 p 57
Japan Plans to Renew Steel Import Quota, Feb 25 p 25
Japanese Trade Firms Upset with GM Proposal, Mar 11 p 25
Metallurgists Take a Close Look at a New Gas, by R. R. Irving, Apr 15 p 65
Nixon Says USS's Boost is Just Small Enough, by G. J. McManus and K. A. Kaufman, Jan 21 p 32
Only U. S. Lags in IISI Raw Steel Production, Feb 11 p 25
Service Centers are Pulling All the Stops for Sales Success, by K. W. Bennett, May 6 p 45
Steel Summary: Always Something to Worry About, Mar 18 p 111
Steel Summary: Are More Dumping Charges Coming? Feb 18 p 71
Steel Summary: Delivery Times Continue to Stretch, Apr 15 p 81
Steel Summary: 11 Million Ton Buildup Starts, Feb 11 p 107
Steel Summary: Full Blast for Mills Through July, Apr 29 p 63
Steel Summary: Good Auto Sales to Cause Scrambling? Apr 1 p 83
Steel Summary: The Greener Grass is Sprouting, Jan 21 p 51
Steel Summary: Have Steel Men Lost Stainless Grip? May 20 p 89
Steel Summary: Inventory Boom Gets Underway, Jan 14 p 65
Steel Summary: It's Too Late to Order Plate, Jan 28 p 63
Steel Summary: Mini-Mills for Making Tinplate? June 17 p 81
Steel Summary: New Bar Mill Boosts Quality, June 24 p 60
Steel Summary: No Panic in Handling the Buildup, May 13 p 91
Steel Summary: Orders Roll in at 10 Million Ton Rate, Feb 4 p 67
Steel Summary: Price Hedging Makes June Peak, May 27 p 113
Steel Summary: Problem Now is Finding Wheels, Apr 8 p 77
Steel Summary: A Record 11 Million Tons in June? June 10 p 129
Steel Summary: Record Second Quarter Shipments, Apr 22 p 113
Steel Summary: Shipments to Jump 20 Pct in March, Mar 25 p 83
Steel Summary: Strong 2nd Quarter for Autos Aids Mills, May 6 p 73
Steel Summary: Watch for Two Trouble Areas, Feb 25 p 71
Strong Steels Take Severe Bends, by B. D. Wakefield and R. R. Irving, June 3 p 57
Two Can Play the Price Game, Jan 14 p 47

Steel Co. of Canada, Ltd.:
Gas-Sleeve Nozzle Casts Killed Steel, Apr 22 p 26

Steel Equipment
Steel Equipment Men Hang on Through the Bust Between Booms, by G. J. McManus, Jan 14 p 48

Steel Industry
And Now—Back to Try Again-Import Curb Bill, by K. A. Kaufman, Feb 4 p 17
Can Steel Survive the Seventies? by H. R. Neal, Apr 15 p 51
Can Steelworkers Live in Moderation? by G. J. McManus, Mar 18 p 70
Can U. S. Stay Out of Steel Talks? by K. A. Kaufman, Apr 22 p 59
Cort Sizes Up Wage-Price Climate, by G. J. McManus, Apr 8 p 50
Cost-Price Shootout at Market Corral? by G. J. McManus, June 17 p 42
Don't Sell Steel Short, Gott Urges, by G. J. McManus, May 20 p 53
Everybody's Right . . . But How Right? by Gene Beaudet, Jan 28 p 5
Foreign Cutthroats May Shut Mills, by G. J. McManus, May 20 p 49
Foreign Steel for Hedging? Users Can't Count on It, by G. J. McManus, Jan 14 p 47
Here's How It Is, Steelmen Tell U. S., by K. A. Kaufman, May 27 p 69
Incomes Policy Coming? USWA Talks Will Decide, by G. J. McManus, Jan 21 p 35
It Couldn't Have Been Said Better, by Gene Beaudet, May 13 p 5
Labor: A Hands-Off Policy that Slaps, by G. J. McManus, June 10 p 70
Metalworking's Freight Crisis Gets Up Steam, by G. J. McManus, Feb 4 p 42
Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46
Nixon Says USS's Boost is Just Small Enough, by G. J. McManus and K. A. Kaufman, Jan 21 p 32
Reciprocity Attack Swings from Steel to Aluminum, by K. A. Kaufman, June 3 p 21
Recovery: A Case of Tired Blood? by G. J. McManus, June 3 p 45
Rift Grows Over Antitrust Policies, by G. J. McManus, Apr 29 p 35
"Rome is Burning," Say Steelmen, by G. J. McManus, Jan 28 p 40
Steel Bargaining: Head-On Collision, by G. J. McManus, May 27 p 68
Steel Import Quotas Down to Nitty Gritty, by K. A. Kaufman, June 24 p 42
Steel Labor: Can Talks Aren't the Only Show, Feb 18 p 19
Steel: Non-economic Issues Could Decide, June 3 p 19
Steel Profits: A Long Tale of Woe, by G. J. McManus, Feb 4 p 41
Steel Study Rides a Painted Pony, by G. J. McManus, Mar 11 p 43
Steel Summary: Billions for Survival in the '70s, Jan 7 p 165
Steel Summary: Boom is Running Out of Steam, June 3 p 73
Steel Summary: Inventory Boom Gets Underway, Jan 14 p 65
Steel Summary: Mini-Price War in Midst of Boom, Mar 4 p 79
Steel Summary: Problems in the Best of Times, Mar 11 p 71
Steel Talks: Louder Maybe, But Not Longer, Apr 1 p 19
Steel's Worst Product—Productivity, by G. J. McManus, Feb 25 p 49
U. S. Inflation Alert Flashes for Steel, by K. A. Kaufman, Apr 22 p 61
USWA—Thinking Big for 1971, by G. J. McManus, Feb 11 p 59
Wage Demands: Like Going Up the Downstairs, by G. J. McManus, Apr 8 p 46
Wage-Price Paradox Puzzles Steelmen, by G. J. McManus, June 24 p 44
Whipping Boy Steel Whips Back, by G. J. McManus, May 6 p 35
White House Warning: Price Hikes Can Open Import Floodgates, by K. A. Kaufman, Jan 21 p 33

Steel Summary—Weekly Appraisal of Marketing and Production

Steelmaking
Accuracy Tips Scale for Ingot Pouring, by R. A. Wilson, June 10 p 84
Blast Furnace Complex: Steelmaking's Next Step? by K. W. Bennett, June 10 p 71
Computer Scales Up Melt Shop Skills, by R. A. Wilson, May 6 p 57
Controlled Al-Killing Degassing of Steel, May 20 p 27
Critics Question Certain Aspects, Jan 21 p 44
Direct Steelmaking in Hearth Proposed, by G. J. McManus, Jan 21 p 44
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75
The Eyes of Texas are on U. S. Steel, Apr 29 p 49
"Flip Tops" Keep Soaking Pits Hot, Apr 29 p 56
Gas-Sleeve Nozzle Casts Killed Steel, Apr 22 p 26
Hot Metal Detectors Trigger Action, May 20 p 62
Increased Output Keyed to Sawing Speed, Mar 25 p 60
"Jumping Mill" Keeps Plant Hopping, by J. J. Obrzut, Jan 21 p 45
Multilevel Mill Control is Near, May 13 p 73
New Process Cuts Roll Delivery Time, by B. D. Wakefield, June 3 p 62
Pollution: Welding's Pot-of-Gold, by N. B. Schwartz, Apr 15 p 62
Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53
Steel Mills Loosen Purse Strings a Little, by G. J. McManus, Apr 29 p 35
Steel Summary: New Bar Mill Boosts Quality, June 24 p 60
Strong Steels Take Severe Bends, by B. D. Wakefield and R. R. Irving, June 3 p 57
What Rare Earths Add to Steel, by A. M. Greene, Feb 25 p 62
Why Not Combine Melting, Fabrication, by R. R. Irving, Mar 11 p 53
Will Abundant Scrap Cool DR's Charm? by G. J. McManus, Apr 15 p 47

Steel Service Center Institute
Service Centers are Pulling All the Stops for Sales Success, by K. W. Bennett, May 6 p 45

Stokes Div.:
Molding Machine Trims Time and Cost, May 6 p 55
New Machine Molds Thermosets Faster, by J. J. Obrzut, Feb 25 p 61

Storm Vulcan Co.:
Recession Eats Auto Parts' Dust, by K. W. Bennett, Mar 18 p 64

Stress Relief Engineering, Inc.:
What Good are the Shakes? by T. H. Malim, Jan 14 p 56

Richard O. Sulz Co.:
Injection Molding Shoots for Size, by B. D. Wakefield, Apr 22 p 75

Sun Oil Co.:
Ignoring Little Boxes that Fence Us In, Mar 11 p 27

Sundstrand Corp.:
UAW Settles Sundstrand; Rumors Float at Fisher, May 20 p 19

Sunnen Products Co.:
Recession Eats Auto Parts' Dust, by K. W. Bennett, Mar 18 p 64

Sun Shipbuilding and Dry Dock Co.:
The Laser Aids in Shipfitting, May 27 p 84

Surface Combustion Div.:
Incinerators Fire Up in Cold Economy, by K. W. Bennett, June 10 p 72

Surftran Co.:
Thermal Method Removes Burrs, June 24 p 58

Susquehanna Corp.:
Pollution-Free Rapid Transit, Mar 25 p 26

Sweco, Inc.:
Now They'll Guarantee Your Finishing Costs, by S. H. Hockenberry, May 20 p 50

Sweden
Card NC Tries Comeback with Swedish Managers, by K. W. Bennett, May 20 p 47

T

Tankers
Wanted: Tankers to Haul LNG, by R. R. Irving, Mar 25 p 53

Taps
Printing Makes its Mark on Drills, Feb 4 p 55

Taxes
Congress Won't Sabotage Nixon's Write-Off Reform, by K. A. Kaufman, May 20 p 21
Critic's Hoopla Jabs Write-Off Reform, by K. A. Kaufman, Apr 22 p 64
Depreciation Reform is Alive and Well, by K. A. Kaufman, Jan 14 p 19
Have You Got Problems? Or, Conditions? by Gene Beaudet, Jan 21 p 5
Industry Depreciates Nader Challenge, June 3 p 47
Industry Ho-Hums Write-Off Reform, Jan 21 p 29
Is Mills Really Robin Hood? by K. A. Kaufman, Mar 18 p 61
Nixon Budget Deficit Will Hold If—by K. A. Kaufman, Feb 4 p 44
Nixon Mixing Politics and Tax Reform, by K. A. Kaufman, Jan 7 p 78
Pollution Control Write-Off: Stamp of Approval, by K. A. Kaufman, May 27 p 19
Tax Cut? Yes, But Don't Ask How, When and Why, by G. J. McManus, Apr 15 p 44
Will Value Added Tax be Next U. S. System? Apr 1 p 25
Write-Off Tax Changes: Still Coming in Early June, May 13 p 13

Techfront—Weekly Analysis of New Developments in the Metalworking and Related Industries

Technology
Biggest Design Flaw: Over-Engineering, by G. J. McManus, Apr 29 p 42
But Will This Concern Help Technology? by I. G. Black, Mar 11 p 44
Can You Afford Not to Know What's Coming? Feb 4 p 23
Finding the Right Man—and His Staff, Feb 4 p 23
Steel Summary: Billions for Survival in the '70s, Jan 7 p 165
Technology 'As You Like It', by W. G. Patton, May 27 p 80
Technology Goes the Other Way, Mar 18 p 28

Teledyne Pines
Tube Bending Technology Shapes a Firm Future, by B. D. Wakefield, Apr 1 p 54

C. Tennant Sons & Co.:
Just How Strong is Allende in Chile? by James Beizer, Apr 15 p 83

Tenneco, Inc.:
But Featured Part is Welcomed, Feb 11 p 27
Deepsea Nodules Yield Minerals, by B. D. Wakefield, May 13 p 74

Testing & Inspection
What Good are the Shakes? by T. H. Malim, Jan 14 p 56

Texaco Development Corp.:
Japanese Attack Coke Problem, by N. B. Schwartz, Feb 18 p 58

Texas Electronic Precipitator Co.:
Maintenance: Hot Pants Over In-Plant Smoke, by R. A. Wilson, Apr 1 p 44

Texas Instruments, Inc.:
LSI. An Evolution in Controls, by A. M. Greene, Apr 1 p 51
What's Bugging Manufacturing Managers, by P. J. Cathey, Mar 25 p 44

Thermal Radiation
Hot Metal Detectors Trigger Action, May 20 p 62

Thermo Electron Corp.:
Steam Also Ran Despite Research, by D. N. Williams, Mar 11 p 23

A. S. Thomas, Inc.:
Service Centers Thrive on Tapes, by T. H. Malim, Mar 25 p 58

3M Co.:
Grinding Jobs Multiply for Coated Abrasives, by B. D. Wakefield, Mar 18 p 79
Mechanical Plating Curbs Rust, Embrittlement, Feb 11 p 81

August Thyssen-Hutte AG
Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46
Process Control Boosts Blast Furnace Output, Jan 14 p 58

Timken Roller Bearing Co.:
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75

Tin
Steel Summary: Mini-Mills for Making Tinplate? June 17 p 81

Tires
Technology Goes the Other Way, Mar 18 p 28

Titanium
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75
Titanium—Aerospace and Then What, Mar 4 p 28

Titanium Carbide
Coated Inserts: Confusing the Users, by K. W. Bennett, June 24 p 41
TiC Cutters Take it All Off, by R. A. Wilson, Mar 18 p 67

Tocco Div.:
Tocco Sells 25 Valve Seat Hardeners to Cope with Low Lead, June 3 p 11

Tonka Corp.:
Make Trade, Not War With Red Bloc, by K. W. Bennett, Mar 4 p 44

Tool and Die Industry
Keeping Commercial Hands Off Defense Tooling, by K. A. Kaufman, Apr 15 p 21
Rockover Joins Tool-Die Makers in Equipment Fight by K. A. Kaufman, May 13 p 21
Searching for a Golden Goose, by R. A. Wilson, Apr 8 p 43
Tool & Die Thins Under Double Blows, by R. A. Wilson, Apr 8 p 43

Tool Steel
PM Tool Steels Come Out Swinging, by J. J. Obrzut, Jan 14 p 51

Townsend Co.:
Anodizing's Almost Defect-Free, Feb 18 p 60

Toyota Motor Distributors (USA), Inc.:
The Vega & Pinto: Who's Papa? by D. N. Williams, Apr 1 p 23

Training Programs
Don't Gain Skill in Worrying, Think Solutions, Apr 29 p 24
Manpower Money: Put it Where the OJT Is, Feb 4 p 15
Training Helps When Times are Tough, June 10 p 27
What's Bugging Manufacturing Managers, by P. J. Cathey, Mar 25 p 44

Transportation
Metalworking's Freight Crisis Gets Up Steam, by G. J. McManus, Feb 4 p 42
Pollution-Free Rapid Transit, Mar 25 p 26

Trucks
Russian Trade Roulette: The Odds Improve, by P. J. Cathey, June 24 p 45

Tubing
Abrasive Cut-Off Has New Angles, by T. H. Malim, Jan 28 p 52
Tube Bending Technology Shapes a Firm Future, by B. D. Wakefield, Apr 1 p 54

U

USI—Clearing
Power Press S.O.S.: Safe or Sorry, by R. A. Wilson, June 17 p 45

U.S.S.R.
Russian Trade Roulette: The Odds Improve, by P. J. Cathey, June 24 p 45
To Russia With Profit—U. S. Tools, by D. N. Williams, June 17 p 39
Trading with Russians or Red Chinese: Who's the Best Bet? by K. A. Kaufman, June 17 p 40
U. S. Machine Builders Push Soviet Sales, May 13 p 25
USSR Inks $22.5 Million Pact with U. S. Company, June 10 p 25

U. S. Department of Commerce
American Foreign Spending Exceeds U. S. Rate, Apr 1 p 43

U. S. Department of the Interior
Coal Gas Plants Begin Pilot Pipe Flows, by I. G. Black, Jan 14 p 46

U. S. Department of Labor
DOL Head Beats Drum for Rail Law Reform, June 10 p 19
DOL Won't Leave Engineers Defenseless, Mar 18 p 18
Engineers Map Course for Federal Job Fund, Apr 22 p 19
Hodgson's Hope: Labor Reform Bill in '71, Jan 14 p 17
Labor: A Hands-Off Policy that Slaps, by G. J. McManus, June 10 p 70
Safety Bill: For Lawyers or Workers? by C. J. Suchocki, Apr 22 p 62
Safety Inspectors: Have Law, Won't Travel—Yet, by K. A. Kaufman, May 6 p 21

U. S. Department of Transportation
Metalworking's Freight Crisis Gets Up Steam, by G. J. McManus, Feb 4 p 42
Pollution-Free Rapid Transit, Mar 25 p 26

U. S. Industries, Inc.:
Injection Molding Shoots for Size, by B. D. Wakefield, Apr 22 p 75
Press Builders: Long on Optimism, Short on Orders, by K. W. Bennett, Jan 21 p 34

U. S. Metals Refining Co.:
Does Every Price Cloud Have a Silver Lining? by James Beizer, May 6 p 75

U. S. Steel Corp.:
Blough Attacks Wage Hikes, Approves Fed Aid, June 17 p 19
Curtain Wall: More than Skin Deep, by A. M. Greene, May 27 p 77
The Eyes of Texas are on U. S. Steel, Apr 29 p 49
Grinding Away at Steel Defects, by T. H. Malim, June 3 p 60
Metallurgy Sharpens its Vision, by T. H. Malim, June 10 p 79
Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46
Modular Homes: Now is the Hour? by K. W. Bennett, Feb 18 p 39
Nixon Savs USS's Boost is Just Small Enough, by G. J. McManus and K. A. Kaufman, Jan 21 p 32
Recovery: A Case of Tired Blood? by G. J. McManus, June 3 p 45
"Rome is Burning," Say Steelmen, by G. J. McManus, Jan 28 p 40
Should Mini Mills Take on Rolling? by G. J. McManus, June 24 p 53
Steel Bargaining: Head-On Collision, by G. J. McManus, May 27 p 68
Technology Goes the Other Way, Mar 18 p 28
Wage-Price Paradox Puzzles Steelmen, by G. J. McManus, June 24 p 44
Whipping Boy Steel Whips Back, by G. J. McManus, May 6 p 35

U. S. Steel Supply Co.:
Service Centers are Pulling All the Stops for Sales Success, by K. W. Bennett, May 6 p 45

Undersea Technology
Deepsea Nodules Yield Minerals, by B. D. Wakefield, May 13 p 74

Unimation, Inc.:
Ford to Diaper 60 Precocious Mikes, by D. N. Williams, June 3 p 49
Iron Mike Works on Monday, by D. N. Williams, Mar 4 p 43
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51

Union Carbide Corp.:
Electroslag Takes on Aluminum, by R. R. Irving, Apr 15 p 60
Grinding Away at Steel Defects, by T. H. Malim, June 3 p 60
Nationalism: Latin America's Big Schtik, by I. G. Black, Apr 15 p 42
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 54

Union Electric Steel Corp.:
New Process Cuts Roll Delivery Time, by B. D. Wakefield, June 3 p 62

Uniroyal Inc.:
Plastics Display Tough New Image, by H. R. Clauser, Feb 11 p 77

United Aircraft Corp.:
Are LNG Pipelines Practical? Mar 11 p 60
Electron Beam Tools Play Waiting Game on Orders, by T. H. Malim, Feb 25 p 45

United Auto Workers
AMC Talks: GM Was Never Like This, by D. N. Williams, Apr 15 p 46
Benefits Tilt Prefaces UAW-Tool Shop Talks, Jan 7 p 19
Chrysler Fights Deadline: IH Hit by UAW Walkout, Jan 21 p 18
Chrysler Offer Spurned; Back Pay, Salaries Hit, Jan 14 p 17
Federal Aid to Lockheed a Big Risk, Says UAW, June 24 p 19
The Sabbath Day Grows Longer, by D. N. Williams, Jan 28 p 36
UAW Bargains to Keep Supply Lines Open, by D. N. Williams, Feb 25 p 48
UAW Demands Threaten XLO Unit, Apr 15 p 19
UAW Offers AMC Extended Big Three Pact, Mar 11 p 19
UAW On a Four-Day Week: Feedback Affirmative, May 27 p 19
UAW Settles Sundstrand; Rumors Float at Fisher, May 20 p 19
UAW Shows its 'Management' Colors, Apr 15 p 46

United Kingdom
British Shipbuilder Goes Down the Ways, June 24 p 25
Plasma Moves Into Hot Machining, June 3 p 64
The Red Coats are Coming—Back! by D. N. Williams, Jan 21 p 20
Scottish Crane Invades U. S. Industry, Jan 21 p 46

United Mine Workers of America
The Energy Pinch Releases Its Grip, by G. J. McManus, May 27 p 63
Mineworker Head Hit with Fraud Charge, Mar 11 p 19
UMW Walkout in Homage to Strength of Boyle? June 24 p 19

United Rubber Workers
Industrial Health: URW, Goodrich Begin Study, June 24 p 19

United Steelworkers of America
Aluminum, Building: Pass the Catch Up, by G. J. McManus, Mar 25 p 42
Can Steelworkers Live in Moderation? by G. J. McManus, Mar 18 p 70
Can U. S. Stay Out of Steel Talks? by K. A. Kaufman, Apr 22 p 59
Copper Talks: C-O-L Glows Green, by J. M. Brimberg, Mar 4 p 48
Copper Talks: Wake Me When It's Over, by James Beizer, June 24 p 39
Cost-Price Shootout at Market Corral? by G. J. McManus, June 17 p 42
Crocodile Tears Open Aluminum Labor Talks, by James Beizer, Apr 22 p 115
Everyone Gets His Price in Aluminum Accord, by James Beizer, June 3 p 51
Incomes Policy Coming? USWA Talks Will Decide, by G. J. McManus, Jan 21 p 35
Jobless Benefits: Not All Who Ask Receive, Feb 11 p 19
Labor: A Hands-Off Policy that Slaps, by G. J. McManus, June 10 p 70
Long Copper Strike Not Likely in 1971, by James Beizer, Jan 28 p 42
Occupational Skepticism & Harassment Act of 1970? by C. J. Suchocki, June 17 p 44
Recovery: A Case of Tired Blood? by G. J. McManus, June 3 p 45
Safety, Local Autonomy Fan Rank-and-File Revolt, by G. J. McManus, May 13 p 58
Selective Strikes, Canners Crowd Steelworkers, Feb 25 p 19
Steel Bargaining: Head-On Collision, by G. J. McManus, May 27 p 68
Steel Labor: Can Talks Aren't the Only Show, Feb 18 p 19
Steel: Non-economic Issues Could Decide, June 3 p 19
Steel Talks: Louder Maybe, But Not Longer, Apr 1 p 19
U. S. Inflation Alert Flashes for Steel, by K. A. Kaufman, Apr 22 p 61
USWA Strikes Canmakers After National Settles, by K. A. Kaufman, Feb 18 p 43
USWA—Thinking Big for 1971, by G. J. McManus, Feb 11 p 59
Wage Demands: Like Going Up the Downstairs, by G. J. McManus, Apr 8 p 46
Wage-Price Paradox Puzzles Steelmen, by G. J. McManus, June 24 p 44
Whipping Boy Steel Whips Back, by G. J. McManus, May 6 p 35

United Transportation Union
Path Cleared for Selective Rail Strikes, Apr 8 p 17
Rail Talks: Somehow the Trains Will Roll, Mar 4 p 19

Universal Technology Corp.:
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75

University of California at Los Angeles
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75

University of Colorado
Handle Marginal Employee the Way He Should be Handled, by D. N. Williams, Feb 4 p 46

University of Florida
Metallurgists Take a Close Look at a New Gas, by R. R. Irving, Apr 15 p 65

University of Indiana
First Get the Facts, Man, Get the Facts, June 3 p 25

University of Iowa
What's Happening in Hot Machining? Jan 14 p 54

University of Maryland
First Get the Facts, Man, Get the Facts, June 3 p 25

University of Michigan
Four-Day Workweek: Organizational Malpractice? May 6 p 25
It's Decade of Growth—or Else, by J. D. Baxter, June 17 p 48
Stop Jiving, Educator Tells Reformers, Apr 1 p 27
Was that Big Gain in GNP for Real? by J. D. Baxter, May 6 p 39
What's Bugging those People in the Plant? June 10 p 27
When Will the Wankel Make It? by D. N. Williams, Feb 25 p 57

University of Texas
But Featured Part is Welcomed, Feb 11 p 27

Upper Clyde Shipbuilders, Ltd.:
British Shipbuilder Goes Down the Ways, June 24 p 25

Used Machinery—Clearing House for Variety of Not-So New Equipment

Utica Tool Co., Inc.:
Redesign of Dies Aids Automated Forging, May 27 p 83

V

Vacuum Industries, Inc.:
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51
Sputtering: A New Way to Coat, by T. H. Malim, Apr 1 p 56

Vacuum Technology
Boomtime for Vacuum Brazing, by T. H. Malim, Feb 4 p 51
Sputtering: A New Way to Coat, by T. H. Malim, Apr 1 p 56

Vermont Tap and Die Co.:
Printing Makes its Mark on Drills, Feb 4 p 55

Versatran Div.:
Iron Mike Works on Monday, by D. N. Williams, Mar 4 p 43

Verson Allsteel Press Co.:
Power Press S.O.S.: Safe or Sorry, by R. A. Wilson, June 17 p 45
Press Builders: Long on Optimism, Short on Orders, by K. W. Bennett, Jan 21 p 34

Vibra Screw, Inc.:
Fast Sand Return Streamlines Foundry, Apr 22 p 82

Vibration
What Good are the Shakes? by T. H. Malim, Jan 14 p 56

Vibratonics Div.:
What Good are the Shakes? by T. H. Malim, Jan 14 p 56

Vibro-Dynamics Corp.:
Maintenance: Hot Pants Over In-Plant Smoke, by R. A. Wilson, Apr 1 p 44

Volkart Bros.:
Cutting with an NC-Driven Spark, May 6 p 27

Volkswagen AG
Auto Rules: A Blessing in Disguise? by D. N. Williams and James Beizer, Mar 25 p 39
Is the Auto a Status Dropout? by D. N. Williams, Apr 8 p 41
Press Builders: Long on Optimism, Short on Orders, by K. W. Bennett, Jan 21 p 34

W

Walker Mfg. Co.:
Recession Eats Auto Parts' Dust, by K. W. Bennett, Mar 18 p 64

Wallace Supplies Mfg. Co.:
Tube Bending Shapes a Firm Future, by B. D. Wakefield, Apr 1 p 54

Warehouses
Tool Builder Automates Expansion, by B. D. Wakefield, Mar 18 p 82

Warner Electric Brake & Clutch Co.:
Dollar Dance to Alter Economy's Steps? May 20 p 45

Warner & Swasey Co.:
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53
The New Power Profit in NC Lathes, by J. E. Sandford, June 17 p 51
Put Override on Computer's Role, by R. A. Wilson, June 10 p 75
Some Machine Builders Expand Despite Slump, by K. W. Bennett, June 17 p 43
Sure, Machine Tool Sales Will Get Better—But When? by R. A. Wilson, Jan 7 p 76
Toolmen Cry 'Investment Credit Now', by R. A. Wilson, Apr 15 p 45

Washington News Report—Weekly Interpretation of Legislation and Other Government (See Also K. A. Kaufman)

George Washington University
Metallurgy Sharpens its Vision, by T. H. Malim, June 10 p 79

Waste Industries, Inc.:
Incinerators Fire Up in Cold Economy, by K. W. Bennett, June 10 p 72

Waterbury Farrel Co.:
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53

Wean United, Inc.:
Steel Equipment Men Hang on Through the Bust Between Booms, by G. J. McManus, Jan 14 p 48
Tax Cut? Yes, But Don't Ask How, When and Why, by G. J. McManus, Apr 15 p 44

Weld Tooling Corp.:
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59

Welding
Abrasive Cut-Off Has New Angles, by T. H. Malim, Jan 28 p 52
Cr-Ni-Mo-V Alloy for Pressure Vessels, June 24 p 28
Diffusion Bonding Makes Split-Second Joints, by R. R. Irving, Jan 28 p 51
EB Processing Shows Unique Advantage, by N. B. Schwartz, Mar 18 p 75
Electron Beam Tools Play Waiting Game on Orders, by T. H. Malim, Feb 25 p 45
Electroslag Takes on Aluminum, by R. R. Irving, Apr 15 p 60
Electroslag Welding Repairs Worn Rolls, Jan 14 p 27
The 52nd Welding Meeting Converges on West Coast, Apr 15 p 68

Into the Air With Weld Bonding, by T. H. Malim, Mar 4 p 60
Metallurgists Take a Close Look at a New Gas, by R. R. Irving, Apr 15 p 65
Pollution: Welding's Pot-or-Gold, by N. B. Schwartz, Apr 15 p 62
Production Welding of PM Parts Comes of Age, by B. D. Wakefield, Jan 21 p 39
Weld Plate the Electroslag Way, by R. R. Irving, Apr 15 p 59
What They Want from Candidate Materials, Mar 25 p 56
Where the Action Is: Fuel Gases, by R. R. Irving, Apr 15 p 64

Western Electric Co., Inc.:

Maintenance: Hot Pants Over In-Plant Smoke, by R. A. Wilson, Apr 1 p 44

Westinghouse Electric Corp.:

Good Plant Design Cuts Human Errors, by J. J. Obrzut, Apr 22 p 78
LSI: An Evolution in Controls, by A. M. Greene, Apr 1 p 51
Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53

Westinghouse Urban Systems Development Corp.:

Modular Homes: Now is the Hour? by K. W. Bennett, Feb 18 p 39

Wheeling-Pittsburgh Steel Corp.:

Mill Marriages: Steel's Last Hope? by G. J. McManus, Mar 4 p 46
Whipping Boy Steel Whips Back, by G. J. McManus, May 6 p 35

Whirlpool Corp.:

Appliance Men Plug in to Happy Times, by K. W. Bennett, June 3 p 48

White Motor Corp.:

Will White Pen New Verse for "Ballad of Bunkie", by R. A. Wilson, May 6 p 38

Whittaker Corp.:

New Methods Aim at Deposition, by T. H. Malim, May 20 p 61

M. S. Willett, Inc.:

Transfer System Steps Up Press Temp, by J. J. Obrzut, Mar 4 p 62

Williams Research Corp.:

Williams Turns on Gas Turbine, by D. N. Williams, Jan 14 p 21

Wyman-Gordon Co.:

Forging Joins its Competition, May 20 p 64
Forging Puts Copper on a Higher Plateau, Apr 15 p 29

Wytmar & Co., Inc.:

Firing Executives Never Easy, Still— Feb 25 p 27
Wanted: Manufacturing and Money Managers, Apr 22 p 25

X

Xenex Corp.:

Machine Tools Meet New Masters, by J. E. Sandford, Feb 18 p 53

Xerox Corp.:

Don't Gain Skill in Worrying, Think Solutions, Apr 29 p 24
Killing Computer Projects: Only Matadors Need Apply, by P. J. Cathey, Mar 18 p 66

Y

Yale University

No Sacrifices for the Superstate, by I. G. Black, Apr 8 p 47

Youngstown Sheet & Tube Co.:

Strong Steels Take Severe Bends, by B. D. Wakefield and R. R. Irving, June 3 p 57

Z

Zinc

Amax Hikes Zinc Price (Despite Soggy Market), by James Beizer, Mar 25 p 45
Onward or Upward? Zinc's Got the Pricing Blues, by James Beizer, June 17 p 83
Zinc Price Cuts Set Off Industry-Wide Squabbling, by James Beizer, Jan 14 p 43
Zinc Stock Improvement: A Step Up for Prices, by James Beizer, May 20 p 91

Zinc Institute

Onward or Upward? Zinc's Got the Pricing Blues, by James Beizer, June 17 p 83
Zinc Stock Improvement: A Step Up for Prices, by James Beizer, May 20 p 91

AUTHOR INDEX

B

Baxter, J. D.

All Pickup Needs is Strength and Speed, Apr 29 p 41
Cost Cutting is Out; Cost Control is In, Feb 25 p 46
Don't Let Low Plant Rates Scare You, Mar 11 p 47
Dual Drives at Top Makes Merger Work, Jan 28 p 43
How Bad Were Profits? Don't Ask, June 3 p 50
It's Decade of Growth—or Else, June 17 p 48
Productivity Lag? Try These Ideas, May 13 p 63
Was that Big Gain in GNP for Real? May 6 p 39

Beaudet, Gene

About "The Best Kept Secret", Jan 7 p 5
Deeper Concerns Than the Business Cycle, Jan 14 p 5
Everybody's Right . . . But How Right? Jan 28 p 5
The Greening of Industrial America, Mar 11 p 5
Have You Got Problems? Or, Conditions? Jan 21 p 5
How About This One, Mr. Congressman? Feb 25 p 5
If Not Ahead, Look Back, Mr. McLaren, Apr 15 p 5
Is Lockheed's Survival the Issue? June 17 p 5
Is Overconfidence Holding Up the Recovery? Mar 25 p 5
Is this Guy on to Something? Feb 4 p 5
It Couldn't Have Been Said Better, May 13 p 5
Lesson from Andy Williams and the Bear, Mar 4 p 5
Let Me Make This Perfectly Clear, June 24 p 5
Love Story '72: Another Best Seller? Feb 11 p 5
'71 Looks Good—On Paper, Jan 7 p 73
Sound as a What? June 3 p 5
Tell Me that You Love Me, Arthur Burns, Mar 18 p 5
These are Not Just a Bunch of 'Joes', May 20 p 5
The Tyranny of Campaign GM, May 27 p 5
Wait 'Till Next Year . . . And Next . . . And? Feb 18 p 5
We Hope This is Just a Start, Apr 1 p 5
Well, We're Disappointed, Too, June 10 p 5
We're Number One! Oh, Really, Apr 22 p 5
What They Don't Know, Can Hurt You, May 6 p 5
Where Do You Stand in the Great Debate? Apr 8 p 5
Will Wilbur Come to the Rescue? Apr 29 p 5

Beizer, James

AIME Fashions the Renaissance Man, Mar 11 p 44
Aluminum's Got Trouble-in Spades, Jan 28 p 65
Amax Hikes Zinc Price (Despite Soggy Market), Mar 25 p 45
Australia Wants a Piece of Its Action, Feb 11 p 65
Auto Rules: A Blessing in Disguise? Mar 25 p 39
Can Economists Tell Copper's Fortune? May 6 p 41
A Chile Mine Takeover Puts the Heat on Kennecott, June 3 p 75
Chile's Money Roll Blues Fall on Tin Ears, Mar 4 p 45
"Complaining About the Mean Old Copper Barons", May 13 p 93
Copper Companies: One for All and All for One? Apr 1 p 85
Copper Talks: Wake Me When It's Over, June 24 p 39
Copper and Religion Don't Mix in Puerto Rico, Feb 18 p 73
Copper Users Play a Waiting Game, Feb 4 p 69
Copper's Song of Sulphur: A Pocketful of Wry, June 24 p 75
Crocodile Tears Open Aluminum Labor Talks, Apr 22 p 115
Does Every Price Cloud Have a Silver Lining? May 6 p 75
Everyone Gets His Price in Aluminum Accord, June 3 p 51
How Much is Too Much for Clean Air? Apr 29 p 64
It's the Bottom of the First, With No Relief in Sight, Mar 4 p 81
Just How Strong is Allende in Chile? Apr 15 p 83
Long Copper Strike Not Likely in 1971, Jan 28 p 42
Mining Auld Sod? Luck of the Irish Will Help, Apr 8 p 79
Mining Industry Doesn't Need Anymore 'Friends', Jan 21 p 53
1970 Aluminum Shipments Plunge 6.6 Pct, Mar 11 p 73
1970 Aluminum Shipments Seesaw Down 7 Pct, Jan 7 p 167
1970: Year for Extraordinary Charges, Feb 18 p 45
Nonferrous Metals: So What's Good? May 13 p 53
Nonferrous: Nickel Booms, the Rest Bust in '70, Apr 22 p 67
Onward or Upward? Zinc's Got the Pricing Blues, June 17 p 83
Peru Orders U. S. Companies, 'Pay Up or Get Out', Jan 14 p 67
Raising Prices Doesn't Mean You'll Get It, June 10 p 131
Slow Flow of Silver Socks it to Speculators, May 27 p 115
U. S. Blasts Allende on Copper Takeovers, Feb 11 p 109
U. S. Copper Price Yo-Yos Up 2¢, Apr 1 p 45
U. S. Copper Producers Get LME Pitch—Again, Feb 25 p 73
U. S. Producers' and LME Prices Match at 50¢ a Lb, Mar 18 p 113
Uncle Sam: Scapegoat for Chile's Woes, Mar 25 p 85
Yeah, But How Much Does it Cost? Jan 21 p 31
Zinc Price Cuts Set Off Industry-Wide Squabbling, Jan 14 p 43
Zinc Stock Improvement: A Step Up for Prices, May 20 p 91

Bennett, K. W.

Appliance Men Plug in to Happy Times, June 3 p 48
Blast Furnace Complex: Steelmaking's Next Step? June 10 p 71
Card NC Tries Comeback with Swedish Managers, May 20 p 47
Clean-Up Cause Clanks Ever Onward, Jan 7 p 75
Coalmen Try to Turn Brown Desert Green, Jan 28 p 41
Coated Inserts: Confusing the Users, June 24 p 41
Earthmovers Plow Into Machine Buys, Feb 11 p 56
Farm Machinery Sows its Oats for '71, Feb 25 p 42
Foundries Vie for Piece of the Energy Pie, Apr 8 p 44
Gisholt Closing Shakes Builders, Jan 28 p 39
Incinerators Fire Up in Cold Economy, June 10 p 72
It Takes More than a Sharp Pencil, Mar 25 p 47
Lean Builders Eye Food Machine Diet, Feb 4 p 39
Make Trade, Not War With Red Bloc, Mar 4 p 44
Modular Homes: Now is the Hour? Feb 18 p 39
Money Demand Triggering Credit Rush? May 13 p 56
Nixon's Bloated (?) GNP Figures Finds Shy Admirer, Mar 25 p 43
Press Builders: Long on Optimism, Short on Orders, Jan 21 p 34
A Price Cut by Any other Name is Still the Same, Mar 11 p 42
Promote QC to Executive Status, May 27 p 66
Quality Control Men: Our Own Worst Enemies? May 27 p 66
Rail Labor and Coke Costs Pressure Up Casting Prices, Apr 8 p 44
Recession Eats Auto Parts' Dust, Mar 18 p 64
Recovery Sneaks in the Back Door, Apr 1 p 39
Service Centers are Pulling Out All the Stops for Sales Success, May 6 p 45
Some Machine Builders Expand Despite Slump, June 17 p 43
Stainless War Rages Despite Discount, May 20 p 48
Tooling 'Service Center' Stirs Machine Market, May 6 p 40
Who Will Do It is Planning's Big Problem, June 17 p 41
Will Fun Get Consumer Buying Going? Jan 14 p 41

Black, I. G.

But Will This Concern Help Technology? Mar 11 p 44
Coat Gas Plants Begin Pilot Pipe Flows, Jan 14 p 46
Ecology, Consumer Sap Japan's Exports, Apr 8 p 47
Managers: Reliability's Most Needed Customers, Feb 4 p 45
Metals Pick Up Speed in Building Materials Race, Apr 29 p 37
Nationalism: Latin America's Big Schtik, Apr 15 p 42
No Sacrifices for the Superstate, Apr 8 p 47

Brimberg, J. M.

Copper Talks: C-O-L Glows Green, Mar 4 p 48

C

Cathey, P. J.

Cutting Costs? Try Going to Workers, They'll Help, Apr 29 p 38
Is Zero Defects Still Alive and Well? Feb 25 p 50
Killing Computer Projects: Only Matadors Need Apply, Mar 18 p 66
Russian Trade Roulette: The Odds Improve, June 24 p 45
What's Bugging Manufacturing Managers, Mar 25 p 44

Clauser, H. R.

Plastics Display Tough New Image, Feb 11 p 77

G

Greene, A. M.

Curtain Wall: More than Skin Deep, May 27 p 77
LSI: An Evolution in Controls, Apr 1 p 51
What Rare Earths Add to Steel, Feb 25 p 62

H

Hockenberry, S. H.

The Executive's Third Ear . . . , Apr 1 p 47
Nobody Cries as Gavel Sounds Company Death, Feb 18 p 44
Now They'll Guarantee Your Finishing Costs, May 20 p 50
A World of Business in One Room, May 27 p 71

I

Irving, R. R.

Diffusion Bonding Makes Split-Second Joints, Jan 28 p 51
Strong Steels Take Severe Bends, June 3 p 57
Wanted: Tankers to Haul LNG, Mar 25 p 53
Weld Plate the Electroslag Way, Apr 15 p 59
Where the Action Is: Fuel Gases, Apr 15 p 64
Why Not Combine Melting, Fabrication, Mar 11 p 53

K

Kaufman, K. A.

Administration Dredges Up 1899 Pollution Law, Jan 7 p 21
And Now—Back to Try Again—Import Curb Bill, Feb 4 p 17
Can Consumer Guardians and White House Agree? Mar 4 p 21
Can Nixon Hold Hardhat Demands at Bay? Apr 8 p 19
Can U. S. Stay Out of Steel Talks? Apr 22 p 59
Congress Won't Sabotage Nixon's Write-Off Reform, May 20 p 21
Critic's Hoopla Jabs Write-Off Reform, Apr 22 p 64
Democrats Pressure Nixon for Wage-Price Controls, Feb 18 p 21
Depreciation Reform is Alive and Well, Jan 14 p 19
Efforts to Aid Unemployment May Get Nixon Veto, June 10 p 21
FTC Takes a Tough Stand on Consumer Action, Mar 18 p 20
Fed Cries Need for Price, Cost Curbs, Feb 25 p 47
GAO Asks Halt to Non-Defense Use of Test Gear, Apr 22 p 21
Here's How It Is, Steelmen Tell U. S., May 27 p 69
High Court Shoves Pollution Lawsuits Back on States, Apr 1 p 21
Is Mills Really Robin Hood? Mar 18 p 61
Justice Lowers the Boom on Kennecott Copper Co., Jan 21 p 19
Keeping Commercial Hands Off Defense Tooling, Apr 15 p 21
'70s Look Good for Industry, But Not '71, Apr 1 p 41
'71 May Not be as Good as Forecast, Jan 14 p 44
Nixon Budget Deficit Will Hold If—, Feb 4 p 44
Nixon Dons Mr. Clean Uniform in Ecology War, Feb 18 p 42
Nixon Forces Unveil Money Game Strategy, Feb 25 p 21
Nixon Mixing Politics and Tax Reform, Jan 7 p 78
Nixon Says USS's Boost is Just Small Enough, Jan 21 p 32
Nixon Tightens Wage-Price Screws, Mar 4 p 41
Nixon's NLRB: Like Father, Like Son? Mar 4 p 50
Pollution Control May Hamstring Economy, Fed Says, June 17 p 21
Pollution Control Write-Off: Stamp of Approval, May 27 p 19
Pollution Rules Could Choke Industry—to Death, Feb 11 p 21
Reciprocity Attack Swings from Steel to Aluminum, June 3 p 21
Recovery Dilemma Has Fed Over Barrel, June 10 p 69
Rickover Joins Tool-Die Makers in Equipment Fight, May 13 p 21
SST Still Lacks Congressional Wings, Mar 11 p 21
Safety Inspectors: Have Law, Won't Travel—Yet, May 6 p 21
Senate Tries to Enlarge Warranty Fine Print, June 24 p 21
Something's Got to Give: Defense Profit Figures Clash, Mar 25 p 19
Steel Import Quotas Down to Nitty Gritty, June 24 p 42
Trading with Russians or Red Chinese: Who's the Best Bet? June 17 p 40
U. S. Drops Import Barriers for French Nickel, Jan 28 p 20
U. S. Inflation Alert Flashes for Steel, Apr 22 p 61
USWA Strikes Canmakers After National Settles, Feb 18 p 43
Will Consumer Spending Rise be Disappointing? Apr 29 p 21

L

Lehman, S. E.

Plant Plans: Men, Money, Machines First, Then Build, June 10 p 73

Mc

McManus, G. J.

Aluminum, Building: Pass the Catch Up, Mar 25 p 42
The Best Kept Secret of Our Times, Jan 7 p 85
Biggest Design Flaw: Over-Engineering, Apr 29 p 42
Can Steelworkers Live in Moderation? Mar 18 p 70
Cort Sizes Up Wage-Price Climate, Apr 8 p 50
Cost-Price Shootout at Market Corral? June 17 p 42
Direct Steelmaking in Hearth Proposed, Jan 21 p 44
Does Supply-Demand Still Decide Price? Apr 1 p 42
Don't Sell Steel Short, Gott Urges, May 20 p 53
The Energy Pinch Releases Its Grip, May 27 p 63
Foreign Cutthroats May Shut Mills, May 20 p 49
Foreign Steel for Hedging? Users Can't Count on It, Jan 14 p 47
Incomes Policy Coming? USWA Talks Will Decide, Jan 21 p 35
Labor: A Hands-Off Policy that Slaps, June 10 p 70
Metalworking's Freight Crisis Gets Up Steam, Feb 4 p 42
Mill Marriages: Steel's Last Hope? Mar 4 p 40
Nixon Says USS's Boost is Just Small Enough, Jan 21 p 32
Recovery: A Case of Tired Blood? June 3 p 45
Rift Grows Over Antitrust Policies, Apr 29 p 35
"Rome is Burning," Say Steelmen, Jan 28 p 40
Safety, Local Autonomy Fan Rank-and File Revolt, May 13 p 58
Should Mini Mills Take on Rolling? June 24 p 53
Steel Bargaining: Head-On Collision, May 27 p 68
Steel Equipment Men Hang on Through the Bust Between Booms, Jan 14 p 48
Steel Mills Loosen Purse Strings a Little, Apr 29 p 35
Steel Profits: A Long Tale of Woe, Feb 4 p 41
Steel Study Rides a Painted Pony, Mar 11 p 43
Steel's Worst Product—Productivity, Feb 25 p 49
Tax Cut? Yes, But Don't Ask How, When and Why, Apr 15 p 44
USWA—Thinking Big for 1971, Feb 11 p 59
Wage Demands: Like Going Up the Downstairs, Apr 8 p 46
Wage-Price Paradox Puzzles Steelmen, June 24 p 44
Whipping Boy Steel Whips Back, May 6 p 35
Will Abundant Scrap Cool DR's Charm? Apr 15 p 47

M

Malim, T. H.

Abrasive Cut-Off Has New Angles, Jan 28 p 52
Boomtime for Vacuum Brazing, Feb 4 p 51
Electron Beam Tools Play Waiting Game on Orders, Feb 25 p 45
Getting the Most Out of Pollution, Feb 11 p 80
Grinding Away at Steel Defects, June 3 p 60
Instant Adhesives Go 'Right On', May 6 p 59
Into the Air With Weld Bonding, Mar 4 p 60
Metallurgy Sharpens its Vision, June 10 p 79
New Methods Aim at Deposition, May 20 p 61
Nor' Easters May Weather Industrial Squalls, June 24 p 48
Parts Grow in Plating Tanks, Jan 21 p 42
Phosphor Bronze: Cast into Slabs, May 6 p 56
Rolling Mill Builder Makes it Metric, May 13 p 59
Service Centers Thrive on Tapes, Mar 25 p 58
Sputtering: The New Way to Coat, Apr 1 p 56
What Good are the Shakes? Jan 14 p 56

Miller, Jack

Japan-Canada Coal Talks Leave Kaiser Sweating, May 13 p 57

N

Neal, H. R.

Can Steel Survive the Seventies? Apr 15 p 51

O

Obrzut, J. J.

Good Plant Design Cuts Human Errors, Apr 22 p 78
"Jumping Mill" Keeps Plant Hopping, Jan 21 p 45
Mill Speeds Aluminum to a New Life, Apr 22 p 81
New Machine Molds Thermosets Faster, Feb 25 p 61
PM Tool Steels Come Out Swinging, Jan 14 p 51
Pollution Control Begins Inside the Plant, Jan 28 p 48
Transfer System Steps Up Press Tempo, Mar 4 p 62

P

Patton, W. G.

Axle Line Scores Some Firsts, Feb 4 p 58
Technology 'As You Like It', May 27 p 80
What are the Automakers Doing to Stem the Corrosion Tide? Apr 29 p 52

S

Sandford, J. E.

Computer Eases Job Scheduling, Feb 18 p 46
Laser Metrology Sharpens its Costs, Apr 8 p 57
Machine Tools Meet New Masters, Feb 18 p 53
NC Software's New Combo—NCCS Plus WORD, Jan 28 p 38
The New Profit Power in NC Lathes, June 17 p 51
The Self-Teaching Machine is Here, Apr 8 p 63

Schwartz, N. B.

EB Processing Shows Unique Advantage, Mar 18 p 75
Japanese Attack Coke Problem, Feb 18 p 58
Pollution: Welding's Pot-of-Gold, Apr 15 p 62
Safety: It Starts at the Track, May 13 p 69

Stephenson, Stan

Safety: It Starts at the Track, May 13 p 69

Suchocki, C. J.

Aerospace Myths: Or What Price Glory? June 24 p 43
Engineers: Who'll Save Cock Robin? June 24 p 43
Nixon's NLRB: Like Father, Like Son, Mar 4 p 50
Occupational Skepticism & Harassment Act of 1970? June 17 p 44
Pay Poor Engineers Torn Between Unions and Job, Apr 29 p 40
Safety Bill: For Lawyers or Workers? Apr 22 p 62

W

Wakefield, B. D.

Computer Controls Furnace Cycle, Feb 11 p 82
Computer Untangles Foundry Problems, Mar 25 p 57
Deepsea Nodules Yield Minerals, May 13 p 74
Farm Tool Maker Turns Hardcoater, Jan 28 p 54
Flame Cutter Carves Out Variety in Big Parts, Mar 4 p 61
Forging Has an Appetite for Plastic, Mar 18 p 81
Grinding Jobs Multiply for Coated Abrasives, Mar 18 p 79
Heat Treating Process Checks Pollution, Apr 22 p 80
Injection Molding Shoots for Size, Apr 22 p 75
New Process Cuts Roll Delivery Time, June 3 p 62
Production Welding of PM Parts Comes of Age, Jan 21 p 39
Slotted Metal Fits Into Many Structural Slots, Feb 25 p 60
Strong Steels Take Severe Bends, June 3 p 57
Tool Builder Automates Expansion, Mar 18 p 82
Tube Bending Technology Shapes a Firm Future, Apr 1 p 54

Williams, D. N.

AMC Talks: GM Was Never Like This, Apr 15 p 46
Air Bags: On the Way to Reality, Mar 25 p 21
Auto '71: Stumbling to Record Year? Jan 7 p 80
Auto Rules: A Blessing in Disguise? Mar 25 p 39
Auto Safety Cost-Push Topples Designers' Throne, Mar 11 p 45
Automakers' Parts Reduction Drive Gathers Steam, June 3 p 23
Automen Eye Change to Steel Disc Brakes, Jan 7 p 23
Autos: Can Good Faith Beat Bad Air? May 13 p 55
The Clam Flavored, Lemon Colored Tailgate, Apr 29 p 23
Coming Soon—the "Cleanmobile 8", June 10 p 23
Computer's Kid Brother Comes of Age, Feb 18 p 41
Corvette Goes Mid-Engine in '73, Apr 15 p 23
Chrysler Says It's 'Off the Ropes', Feb 18 p 23
Detroit: Beginning of the End? May 20 p 51
Exhaust Rules: Are the Trade-offs Worth It? May 20 p 23
Finding Ways to Light Their Fire, June 3 p 53
Firebird/Camaro: Could this be Goodbye? May 13 p 23
Ford to Diaper 60 Precocious Mikes, June 3 p 49
Ford Fingers Fickle Government Standards, May 27 p 23
Friedman: Don't Let it All Hang Out, Mar 18 p 63
GM Takes a Back Seat Overseas, Feb 25 p 23
GM Tips Hand on Safety Systems, Feb 4 p 19
GM Unveils Laundry List for '75 Engines, June 17 p 23
'Gift Wrapping' May Stop Car Theft, Jan 28 p 21
Handle Marginal Employee the Way He Should be Handled, Feb 4 p 46
Iron Mike Works on Monday, Mar 4 p 43
Is the Auto a Status Dropout? Apr 8 p 41
Is Ford Maverick Doing its Job? Apr 22 p 23
Is School Bus Safety Just Another Detour? May 6 p 23
Lordstown Plant: GM's New Mark of Excellence? Mar 11 p 39
NAR: "We Can Do it for You Wholesale", June 24 p 23
Noise Control Begins at the Source, Feb 11 p 60
Pay-As-You-Pollute Plan: No Limits—Just Cash, Jan 14 p 45
The Red Coats are Coming—Back! Jan 21 p 20
To Russia With Profit—U. S. Tools, June 17 p 39
The Sabbath Day Grows Longer, Jan 28 p 36
Safety Rules Spark Glimmer of Hope, Mar 4 p 23
Signalmen Stage Costly Rerun, May 27 p 65
So Goes Detroit: So Goes the Recovery? Apr 15 p 48
Sometimes the Old Ways are Best, Apr 29 p 39
Spring Recall Season Blooms, Apr 8 p 21
Steam Also Ran Despite Research, Mar 11 p 23
UAW Bargains to Keep Supply Lines Open, Feb 25 p 48
The Vega & Pinto: Who's Papa? Apr 1 p 23
When Will the Wankel Make It? Feb 25 p 57
Williams Turns on Gas Car Turbine, Jan 14 p 21
A Word for 'Generous Monster', Mar 18 p 22

Wilson, R. A.

Abrasives Give Metal Cutting New Zip, Mar 4 p 55
Accuracy Tips Scale for Ingot Pouring, June 10 p 84
Automatic Gear Lapping Cuts Costs, May 20 p 66
Cancel the Burial at Sea: Shipbuilding Resuscitated, May 6 p 37
Computer Scales Up Melt Shop Skills, May 6 p 57
The Inflation Theme—Play it Again, Sam, May 27 p 67
Inspection Cuts NC Downtime, Mar 11 p 56
Maintenance: Hot Pants Over In-Plant Smoke, Apr 1 p 44
New Lathes Fill Profit Gap, Feb 25 p 44
'72 Tool Show: World Competition in Old Event, Apr 8 p 45
Power Press S.O.S.: Safe or Sorry, June 17 p 45
Put Override on Computer's Role, June 10 p 75
Safety Act: Unsafe at Any Reading, June 10 p 67
Searching for a Golden Goose, Apr 8 p 43
The Sensuous Meter by 'C', Mar 11 p 41
Sure, Machine Tool Sales Will Get Better—But When? Jan 7 p 76
TiC Cutters Take it All Off, Mar 18 p 67
Tool & Die Thins Under Double Blows, Apr 8 p 43
Toolmen Cry 'Investment Credit Now', Apr 15 p 45
Ultra-Cold Treatments Up Heavy Duty Tool Wear, Feb 11 p 58
Will Chrysler Deflate the Air Bag? Feb 11 p 23
Will Fun Get Consumer Buying Going? Jan 14 p 41
Will White Pen New Verse for "Ballad of Bunkie", May 6 p 38

IRON AGE A CHILTON PUBLICATION Chestnut and 56th St., Philadelphia, Pa. 19139

Printed in U.S.A.